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(इस भाग का इसका उठा सूचा को इसके लिए अलग संकलन के रूप में रखा जा सके)

(Separate paging is given to this Part of order that it maybe filed as a separate compilation]

भाग III—खण्ड 2

[PART III—SECTION 2]

पेटन्ट कार्यालय द्वारा जारी को नई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएँ और नोटिस
[Notification and Notices issued by the Patent Office Relating to Patents and Designs]

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PATENTS AND DESIGNS

Calcutta, the 17th September 1988

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**APPLICATION FOR PATENTS FILED AT THE HEAD
OFFICE, 234/4, ACHARYA JAGADISH BOSE ROAD,
CALCUTTA-20**

The dates shown in the crescent brackets are the dates claimed under Section 135, of the Patents Act, 1970.

The 11th August 1988

682/Cal/88. Eaton Corporation. Torque converter lock-up and disconnect clutch structure.

683/Cal/88. Vitebsky Tekhnologichesky Institut Legkoi Promyshlennosti Ussr. Expant for surgical strengthening of a deformed sclera.

684/Cal/88. Indian Jute Industries' Research Association. A simple post-retting method for upgrading jute fibres at cultivator's level.

The 12th August 1988

685/Cal/88. EL Barador Holdings Pty. Ltd. Method of building construction. (Convention dates are 13-8-1987; 17-3-1988; 17-3-1988; 22-4-1988; 24-5-1988) All are Australian.

686/Cal/88. Daya Ranjit Senanayake. Barometric direct-contact condenser. (Convention dated 12th August, 1988) Sri Lanka.

687/Cal/88. Om Chandra Kafley. Mohint Multiposture Doll.

The 16th August 1988

688/Cal/88. Engelhard Corporation. Thermally stabilized catalysts containing alumina and methods of making the same.

689/Cal/88. PKA Pyrolyse Kraftanlagen GmbH. Process and plant for the recovery of utilisable gas from waste-material by the method of pyrolysis.

The 17th August 1988

690/Cal/88. Staudler & Uhl. Top comb for textile machinery and process for cleaning same.

ALTERATION OF DATE

163384.
(386/Del/86)

Ante dated to 9th January, 1984.

163418.
(779/Del/85)

Ante dated to 12th October, 1982.

163419.
(832/Del/85)

Ante dated to 12th October, 1982.

163420.
(863/Del/85)

Ante dated to 30th June, 1982.

163423.
(732/Del/85)

Ante dated to 1st March, 1982.

163425.
(1009/Del/84)

Ante dated to 18th June, 1979.

PATENTS SEALED

150515	152981	154593	155210	157166	159190	159452
159470	159666	159726	159758	159767	159784	159790
159797	159809	159886	159951	159977	160015	160045
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RENEWAL FEES PAID

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152562	157383	157204	159445	158354	154366	154779

REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. Nos. 159386 & 159387. The Jay Engineering Works Limited., 23 Kasturba Gandhi Marg, New Delhi-110 001, India, an Indian Company. "Stand for table fan". 9th February, 1988.

Class 1. No. 159587 Salter Industrial Measurement Limited a British Company having its Regd. Office address at Staveley House, 11, Dingwall Road, Croydon, CR9 3DB, England. "Weighing Balance". Reciprocity date is 22nd October, 1987. (U. K.).

- Class 1.** No. 159685. Ganga Narayan Ghosh, Indian National carrying on business at 6, Sheetal Palace, 1st Road, T. P. S. IV, Bandra (West), Bombay-400 050, State of Maharashtra, India. "Multi-Advantageous Refuse Bins". 10th May, 1988.
- Class 1.** No. 159715. Superior Technologies Pvt. Ltd., B-282, Okhla Industrial Area, Phase-I, New Delhi-110020, India, a Company incorporated under the Companies Act, 1956. "Logical Ozonator". 17 May, 1988.
- Class 1.** Nos. 159724 & 159725. Tarun Shantilal Dholia, Indian National of Jayesw Enterprises, 12-H, Goregaonkar Marg, Gamdevi, Bombay-400 007, State of Maharashtra, India. "Cutless Rubber Bushes". 20th May, 1988.
- Class 3.** Nos. 159349 & 159350. Sripoorna Plastech Private Limited, 64, Third Main Road, Gandhi Nagar, Madras-600 020, Tamil Nadu, India, a company duly organised and existing under the laws of the Union of India. "Inspection chambers for sewer drainage systems". 27th January, 1988.
- Class 3.** No. 159373. Dynavision Limited, Near Dr. Vikram Sarabhai Instronics Estate, Kottivakkam, Madras-600 041, Tamil Nadu, India, a company duly organised and existing under the laws of the Union of India. "Television receiver sets". 4th February, 1988.
- Class 3.** Nos. 159377 & 159378. S. S. D. Oil Mills Company Pvt. Ltd., Village Road, Iyyappanthangal, Madras-600 056, Tamil Nadu, India, Indian, "1 KG Containers". 8th February, 1988.
- Class 3.** No. 159379. Shree Arvind Plastics, Plot No. 39 A-B-C-D Government Industrial Estate, Kandivali (W), Bombay-400067, State of Maharashtra, India, an Indian Partnership firm. "Casserole". 8th February, 1988.
- Class 3.** No. 159395. Dynavision Limited, Near Dr. Vikram Sarabhai Instronics Estate, Kottivakkam, Madras-600 041, Tamil Nadu, India, a company duly organised and existing under the laws of the Union of India. "Television receiver sets". 15th February, 1988.
- Class 3.** No. 159534. Femina Pen Industries 2/1 Nanda Ram Sen 1st Lane, Calcutta-5, West Bengal, India. "Ball Pen". 28th March, 1988.
- Class 3.** No. 159535. Femina Pen Industries, 2/1 Nanda Ram Sen 1st Lane, Calcutta-5, West Bengal, India. "Ball Pen Refill". 28th March, 1988.
- Class 3.** No. 159582. Spei Pens Pvt. Ltd., an Indian Company having its registered office at 1333, 2nd Stage, Einnamangala, Indiranagar, Bangalore-560 038, Karnataka State, India. A "Pen". 7th April, 1988.
- Class 3.** No. 159588. Harrier Inc., of American Towers Commercial Plaza, 46 West South, Suite 200, Salt Lake City, Utah 84101, United States of America, a company organised and existing under the laws of U. S. A. "Housing for a Hand-held Electrical device". 11th April, 1988.
- Class 3.** No. 159592. Regulin Limited, a company incorporated under the laws of the State of Victoria, Australia of Level 12, 222 Kingsway, South Melbourne, Victoria 3205, Australia. "an Implant Gun". 12th April, 1988.
- Class 3.** Nos. 159620 & 159621. Modi Rubber Limited, an Indian company of Modinagar, Uttar Pradesh, India, a "Tyre for a vehicle wheel". 25th April, 1988.
- Class 3.** No. 159655. Electronics Consortium Private Limited, (an Indian Company) at 5A/1, 2, 3 Ansari Road, Darya Ganj, New Delhi-110 002, India. "Television Cabinet". 29th April, 1988.
- Class 3.** No. 159711. Fissler Enterprises, B/25, G. T. Karnal Road, Industrial Area, Delhi-110033, India, a firm registered under the partnership Act, 1932. "Handle". 17th May, 1988.
- Class 3.** No. 159726. Ahmed Mills, Ahmed Oomer Street, Two Tanks, Bombay-400 008, Maharashtra India, an Indian Partnership firms. "Bottle". 23rd May, 1988.
- Class 3.** No. 159727. Ahmed Mills, Ahmed Oomer Street, Two Tanks, Bombay-400008, Maharashtra, India, an Indian Partnership Firm. "Front Panel of Plastic Bottle". 23rd May, 1988.
- Class 3.** Nos. 159728 & 159729. Santosh Radio Products, an Indian Registered Partnership Firm of 1/1A, Biplabi Anukul Chandra Street, Calcutta-700072, West Bengal, India. "Radio Receiving sets". 23rd May, 1988.
- Class 3.** No. 159755. Chinar Trust Throughits Trustee N. R. Dongre, C-17-Connaught Place, New Delhi-110001, India. An Indian Trust. "Sofa Cum Bed". 27th May, 1988.
- Class 4.** No. 159813. Lekhdadia Household Products Pvt. Ltd., C/1/18 G. J. D. C. Industrial Estate, Votva Purao, 1 Ahmedabad, Gujarat, India, a Private limited company incorporated under the India Companies Act. "Bottle". 25th April, 1988.
- Class 4.** No. 159833. N. V. Philips Gloeilampenfabrieken, a limited liability company organized and established under the laws of Kingdom of the Netherlands, carrying on business as Manufacturers at Groenewoudseweg 1, Eindhoven, The Netherlands. "Lamp". 16th June, 1988.
- Class 19.** Nos. 159634 to 159636. Swastik Industries Mfg. Co., of Rambaug, Chincholi Bunder Road, Malad (Wcs.), Bombay-400064, Maharashtra, India. Partnership Firm. "Shoes". 26th April, 1988.
- Extn. of Copyright for the Second period of five years.*
- Nos. 158593, 158688. Class-1.
- Nos. 157160, 157139, 157137, 158569, 157513. Class-3.
- Extn. of Copyright for the third period of five years.*
- Nos. 158688, 147898. Class-1.
- Nos. 157160, 157139, 157137, 158569, 157513, 146311, 147904, 147732. Class-3.
- Nos. 144209, 143925, 143926, 144204, 144205, 144206, 144208, 144207. Class-4.

COMPLETE SPECIFICATION ACCEPTED

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"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

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CLASS : 206-E.

163371

Int. Cl. : G 05 b 19/00

A PROGRAMMABLE CONTROLLER FOR SOLVING A LADDER DIAGRAM.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventor : 1. RALPH EDWARD MACKIEWICZ.

Application No. 99/Cal/85 filed February 11, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A programmable controller for solving a ladder diagram having contact elements and noncontact elements and including a processor (30) for controlling the functioning thereof and for utilizing the noncontact elements to provide a solution related to the ladder diagram, said programmable controller comprising :

a memory (22) for storing signals representing the elements of the ladder diagram and for storing a status signal corresponding to each element of the ladder diagram; characterised by

ladder diagram contact solving circuitry (32) interconnected with the processor (30) and the memory (22) for utilizing the contact elements of the ladder diagram and the corresponding contact element status stored in the memory (22) for providing an output related to the solution of the ladder diagram, said ladder diagram contact solving circuitry being adapted to solve the contact elements of the ladder diagram.

Compl. Specn. 40 pages.

Drgs. 10 sheets.

CLASS :

163372

Int. Cl. : C 02 f 1/00.

AN ELECTROMAGNETIC WATER TREATMENT APPARATUS.

Applicant & Inventor : MIGUEL FAVA BRIGANTE, OF ELECTRO-MAG (INDIA) PVT. LTD., 23/24, RADHA BAZAR STREET, CALCUTTA-700 001, WEST BENGAL, INDIA.

Application No. 143/Cal/85 filed February 26, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

An electromagnetic water treatment apparatus combined with bottom discharge facility of the sludge collecting at the bottom of a boiler comprising :

an electromagnetic treatment unit provided with a primary constant demagnetic field of 900 to 1200 gauss by means of an electromagnetic coil surrounding a ferromagnetic tube through which all of the feed water passes by the rotation of a propeller having 6 to 8 flights and spaced from the inner wall of said tube by 1/16 inch to 1/64 inch while rotating at 200 to 800 revolutions per minute thereby providing a secondary magnetic field within such tube which prevents suspended sludge materials in the feed water from coalescing and forming scale in the boiler;

a conductivity probe in said boiler at a location remote from the entry of the electromagnetically treated

feed water which measures total dissolved solids and is electrically connected to a blowdown valve to remove any sludge which forms;

said boiler having two bottom openings spaced from the ends thereof;

an external sludge collector in the form of a straight conduit having a uniform enlarged diameter 2½ to 4 times the diameter of said bottom opening and a negative slope of 0° to 3° with respect to said boiler;

connecting means which connects the near opening relative to the electromagnetic treatment unit to the inlet of said straight conduit of enlarged diameter and which connects the far opening to the exit end of said enlarged diameter conduit; and

a blowdown valve connected at said exit end which responds to the conductivity sensing probe and which blows out the sludge from said enlarged conduit thereby removing it and avoiding the conversion of said sludge to scale within said boiler.

Compl. Specn. 31 pages.

Drgs. 3 sheets.

CLASS : 33-A & D.

163373

Int. Cl. : B 21 c 37/06.

CONTINUOUS METAL TUBE CASTING METHOD, APPARATUS AND PRODUCT.

Applicant : GENERAL ELECTRIC COMPANY, AT RIVER ROAD, SCHENECTADY, STATE OF NEW YORK 12305, UNITED STATES OF AMERICA.

Inventor : 1. JEFFERERY NORLING PETERSON.

Application No. 289/Cal/85 filed April 15, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

18 Claims

Method of producing continuous tubular metal products of long length using two electromagnetic fields for the formulation of an upwardly directed tubular liquid metal column characterized in that it comprises the steps of forming an elongated upwardly-travelling alternating electromagnetic levitation field (22) within the interior of a surrounding annular-shaped casting vessel (11) and providing a co-extensive electromagnetic containment field component directed at right angles to the upwardly travelling levitation field, forming at least a second electromagnetic field component (23) acting in a direction opposite to the first mentioned electromagnetic containment field within the center of the annular-shaped casting vessel introducing the liquid metal into the lower portion of the annular-shaped casting vessel and the fields to form a tubular liquid metal column (23), establishing the value of the electromagnetic levitation field acting on the tubular liquid metal column to reduce the hydrostatic head of the column to a minimum while maintaining a predetermined dimensional relationship between the outer and inner surfaces of the tubular liquid metal and the opposed interior surrounding surfaces of said annular-shaped casting vessel, maintaining the value of the electromagnetic fields so that the cross-sectional dimension of the tubular liquid metal column is sufficiently large to provide pressureless contact but precludes formation of a substantial gap between the inner and outer surfaces of the tubular liquid metal column and the opposed interior surrounding surfaces of the annular-shaped casting vessel thereby effecting pressureless contact and heat transfer sufficient to solidify the liquid metal between the tubular liquid metal column and the casting vessel while simultaneously reducing gravitational frictional and adhesive forces to a minimum, moving the tubular liquid metal column upwardly through the casting vessel, solidifying the metal while moving upwardly through said vessel and said fields, and removing solidified tubular metal product from the upper portion of the casting vessel.

Compl. Specn. 32 pages.

Drgs. 2 sheets.

CLASS : 178.

163374

Int. Cl. : B 28 d 1/00.

A DEVICE FOR WORKING OF NATURAL STONE.

Applicant : NAUCHNO-PROIZVOSTVENNOE OBIEDINENIE KAMEN I SILIKATY, OF EREVAN, ULITSA ACHARIANA, 40A, USSR.

Inventors : 1. PERCH GRIGOTIEVICH SUVALIAN, 2. KARAPET GEVORKOVICH MNDZHOIAN 3. IOSIF ALEXANDROVICH TER-AZARIEV, 4. TIGRAN ANDRANIKOVICH OGANESIAN, 5. KAREN SEDRAKOVICH VARDANIAN.

Application No. 391/Cal/85 filed May 23, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

A device for working of natural stone, wherein a frame carries a work table for the workpiece to hold and a faceplate carrying a tool secured thereon and having a mirror image of the relief to be applied on the workpiece being handled, said faceplate being secured on a crankshaft kinematically associated with a device, characterised in that the tool is held on the faceplate in such a manner that its end surface facing the work table is in an angular position with respect to the faceplate, while the work table has a drive for setting its working surface parallel to the tool surface facing the table, provision being made for a source of an abrasive suspension and for at least one nozzle communicating with said source and located above the work table for said abrasive suspension to feed under the tool, the angle of the tool inclination towards the faceplate being calculated from the following formula :

$$\frac{E}{D} = \frac{\pi c}{4} \tan(0.02 \text{ to } 0.05) D$$

e

wherein D is an average abrasive grain size,
e is the crankshaft eccentricity.

Compl. Specn. 10 pages.

Drg. 1 sheet.

CLASS : 80-C.

163375

Int. Cl. : B 01 d 25/12.

FILTER PLATE ASSEMBLY.

Applicant : LENSER VERWALTUNGS-GMBH, OF D-7913 SENDEN, BRESLAUER STRASSE 8, WEST GERMANY.

Inventors : 1. WERNER JUNKER, 2. FRANZ HECKL.

Application No. 534/Cal/85 filed July 18, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

A filter plate assembly for a filter press, where a number of filter plates are adapted to be clamped together at the edges of filter chambers (5) and carry eventually a forward movable and also at least areawise flexible press wall (3) one-sided or both-sided into the filter chamber under the influence of a supporting wall (1) and a plate frame (2) locked with the said supporting wall (1) and holding the press wall (3), the said press wall (3) and the said supporting wall (1) form a pressure chamber between themselves for the pressure device, a locking device is provided further to lock the plate frame (2) with the supporting wall (1) at the areas (9) of the two parts facing each other, the locking device consist of at least one locking ridge (10) having a lateral locking projection

(10.1) in the cross-section at the one part and a locking groove (11) with back tapers in the groove walls holding the locking ridge in the locking seat at the other part, elastic sealing ridges (12, 19) provided stretching over the whole periphery of the frame sealing the plate frame (2) and the supporting wall (1) against each other, wherein the said press wall (3) provided separated from the plate frame (2) is clamped at the edge-side in a clamp slit (14) running in peripheral direction between the supporting wall (1) and the plate frame (2), a sealing slit (16) expanding across the plane of the plate has a shoulder area (15) opposite to the clamp slit (14) which joints at the clamp slit (14) such that in the sealing slit (16) the press wall (3) projects inside with a profile edge (17) overlapping the said shoulder area (15), the profile edge (17) of the said press wall (3) has a ring flange (18), directed outward into the sealing slit (16), the said elastic sealing ridge (19) having a U-profile is provided in the said sealing slit (16), the profile built (19.1) of the sealing ridge (19) surrounding the ring flange (18) sealing at both sides and rest at their outer sides sealing the plate frame (2) on the one hand and the supporting wall (1) on the other, the distance between this sealing ridge (19) and the bosh strip (10) forming the bosh seat or bosh groove (11) is so big that the plate frame (2) can remain so far away from the supporting wall (1) during the reduction of the closing pressure of the filter press without releasing its bosh seat (10, 11) at the supporting wall (1) in the region of the sealing slit (16) that the pressure chamber (8) becomes premeable at the sealing ridge (19) in the sealing slit (16).

Compl. Specn. 15 pages.

Drg. 1 sheet.

CLASS : 190-C.

163376

Int. Cl. : F 03 b 1/00.

BALANCED ROTARY SEAL ENSURING TIGHTNESS OF A HYDRAULIC TURBINE SHAFT.

Applicant : "NEYRPIC" 75 RUE GENERAL MARGIN, FR 38000 GRENOBLE, FRANCE.

Inventors : 1. ALBERT SAURON, 2. ALEXANDRE SMETANINE.

Application No. 121/Cal/86 filed February 20, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A rotary seal device for shaft, particularly for hydraulic machine such as turbines, of the type comprising a wear part of which are spaced apart annular seals mounted in a seat-holder loaded in the direction of the wear part, whilst a stream of clean water is sent between the two seals to lubricate and cool them,

wherein said rotary seal device comprises means for ensuring stability of the seals, i.e. for allowing them to return to a stable, satisfactory, operational position by balancing the forces exerted on the seals.

Compl. Specn. 12 pages.

Drg. 2 sheets.

CLASS :

163377

Int. Cl. : H 01 h 81/00.

"CIRCUIT INTERRUPTERS".

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventors : 1. WALTER VICTOR BRATKOWSKI, 2. JOHN ANTHONY WAFER.

Application No. 482/Cal/86 filed June 25, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

17 Claims

A circuit interrupter comprising an electrically insulating housing having a bottom wall, a circuit breaker having first and second separable contacts operable between open and closed positions, the circuit breaker including a trip mechanism having a releasable lever movable when released to a tripped position to cause opening of the contacts, the circuit breaker also including a current detector to monitor current flow and for tripping the releasable lever in response to a predetermined overcurrent condition, the first contact being mounted on a first arm coupled to the release lever, the second contact being mounted on a second arm of which at least a portion is substantially parallel to the first arm to cause current limiting repulsion of the contacts when a predetermined overcurrent condition occurs, electromagnetic actuating means detachable connected to the second arm for moving the second contact between open and closed positions, and modular sensor means detachable connected for monitoring current flow and for actuating the electromagnetic actuating means in response to another predetermined overcurrent condition, whereby the circuit breaker is operable either with or without at least one of said means.

Compl. specn. 17 pages.

Drgs. 9 sheets

CLASS : 186-B₃ & 206-G. 163378

Int. Cl. : H 04 b 1/00; H 03 m 1/46.

AUTOMATIC MULTI-SYSTEM AM STEREO RECEIVER USING EXISTING SINGLE-SYSTEM AM STEREO DECODER IC.

Applicant & Inventor : LEONARD RICHARD KAHN, OF 137 EAST 36TH STREET, NEW YORK, N. Y. 10016, UNITED STATES OF AMERICA.

Application No. 568/Cal/86 filed July 28, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

An AM stereo receiver capable of receiving signals representative of at least first and second different types of AM stereo systems, but using an integrated circuit (IC) stereo signal decoder (10) designed to properly decode only received signals representing said first type of AM stereo system, comprising :

means (26) for receiving AM radio frequency signals and for converting said signals to corresponding intermediate frequency (IF) signals;

first circuit means (26, 30, 28, 38) including an IC (10) designed to properly decode received IF signals representing said first type of AM stereo system, for developing a first pair of left (L) and right (R) stereo audio signals from received IF signals which represent said second type of AM stereo system; and

characterized by

second means circuit (12, 14; 16, 18, 20; 24, 40; 32, 34;) coupled to said IC (10), for adapting said first means so as to develop a second pair of (L) and (R) stereo audio signals from received IF signals which represent said second type of AM stereo system; and

means (42, 44) couples to said first and second means for selecting one or the other of said pairs of (L) and (R) stereo audio signals and for coupling the selected pair to (L) and (R) audio outputs of said receiver.

Compl. specn. 23 pages.

Drgs. 3 sheets

CLASS : 71-F & G; 102-B.

163379

Int. Cl. : F 15 b 13/02; F 16c 1/00; F 16 k 11/00; G 01 d 5/00.

FLUID SERVO SYSTEMS.

Applicant : VICKERS, INCORPORATED 1461 CROOKS ROAD TROY, MICHIGAN 48084, UNITED STATES OF AMERICA.

Inventors : 1. RAJAMOULI GUNDA, 2. MELVIN ARTHUR RODE.

Application No. 569/Cal/86 filed July 28, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

A fluid servo system comprising first and second solenoid valve actuators 32, 46 for variably actuating respective first and second loads 1, 2, first and second sensing means 34, 48 respectively coupled to said actuators 32, 46 and loads 1, 2 to provide corresponding first and second sensor signals X₁, X₂ respectively indicative of actuation at said actuators and loads, means for receiving first and second input command signals J₁, J₂ and digital control means 10 for providing first and second pulsedwidth modulated signals to said first and second solenoid valve actuators 26, 44 as respective functions of differences between said first and second sensor signals X₁, X₂ and the corresponding said first and second command signals J₁, J₂ characterized in that said digital control means 10 comprising :

means 16 for determining a continuously repeating modulation time period TPER common to both of said actuators 32, 46;

first and second register means PW₁, PW₂ for respectively storing modulation time durations PW₁ and PW₂ equal to or less than said modulation period TPER for said first and second actuators 26, 44 respectively;

means 18, 20, 36, 38, ONCON for selectively energizing said first and second solenoid actuators 26, 44 at the onset of each said time period TPER;

means 10, TCUM, TPER, ONCON, TNEW for determining the lesser of said time durations PW₁ and PW₂;

means OFFCON for selectively de-energizing one of said solenoid actuators 26, 44 associated with the lesser of said time durations PW₁ and PW₂ following termination of said lesser duration;

means TNEW, TCUM for determining a difference DT between said time durations PW₁ and PW₂; and;

means OFFCON for selectively de-energizing the other of said solenoid actuators 26, 44 following termination of said difference DT between said durations.

Compl. specn. 11 pages.

Drg. 1 sheet

CLASS : 163380

Int. Cl. : H 02 k 57/00.

AUXILIARY SWITCH HOOKUP ASSEMBLY IN A MOTOR CONTACTOR.

Applicant : SIEMENS AKTIENGESELLSCHAFT, OF WITTEISBACHERPLATZ 2, D-8000, MUNCHEN 2, WEST GERMANY.

Inventors : 1. JOHANN BAUER, 2. KALUS-DIETER PAUL,

Application No. 771/Cal/86 filed October 22, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims

An auxillary switch hookup assembly in a motor contactor, comprising :

an auxiliary switch including an auxiliary switch housing and an operating projection protruding from said housing;

support means in the motor contactor for supporting a contact bridge, said support means being provided with an opening, said operating projection being insertable through said opening and engageable with edges defining said opening;

a slide member slidably mounted to said motor contactor and defining at least a portion of an aperture limiting wall for operation of said auxiliary switch;

first spring means including a contact compression spring in said motor contactor for ensuring conductive engagement of contacts upon actuation of said auxiliary switch and for restoring said auxiliary switch to a natural position upon a deactuation of said auxiliary switch said first spring means having a combined spring constant; and

second spring means for biasing said slide member, said second spring means having a spring constant greater than said combined spring constant, whereby said second spring means can exert a spring force greater than a total force exerted by said first spring means.

Compl. specn. 12 pages.

Drgs. 2 sheets

4 Claims

A process for the preparation of a food product which comprises in roasting edible grade defatted soybean flour, wheat flour and bengal gram flour, at a temperature not exceeding 80°C adding thereto a concentrated syrup of jaggery, cooling and then grinding the same and finally adding thereto known vitamins and minerals such as calcium salts and ferrous salts.

Compl. specn. 6 pages.

163382

Int. Cl. : C 04 B 35/52.

"AN IMPROVED RECTANGULAR BATT OF REFRAC- TORY MATERIAL."

Applicant : NORTON COMPANY, OF 1, NEW BOND STREET, WORCESTER, MASSACHUSETTS 01606, U.S.A., A CORPORATION DULY ORGANISED AND EXISTING UNDER THE LAWS OF THE COMMONWEALTH OF MASSACHUSETTS, U.S.A.

Inventor : ZLATKO STAVRIC.

Application for Patent No. 445/Del/85 filed on 4 June, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

6 Claims

An improved rectangular batt of refractory material, particularly silicon carbide (sic) used for receiving (green) articles of ceramics or refractory materials to be backed and having recesses to reduce internal stresses occurring with great temperature changes, characterized in that a groove like recess or depression (7) oriented approximately diagonally is formed in each quadrant (5) in the upper surface (2) of the batt (1) the bottom (8) of said recess or depression merging smoothly at the ends into the upper surface (2), the ends of said recess or depression being spaced from the corner and center, respectively, of the batt (1), and the bottom (8) having a spacing (t) from the underside (3) of the batt (1) corresponding at least to 1/3 of the thickness (T) of the batt.

Compl. specn. 8 pages.

Drg. 1 sheet

163383

Int. Cl. : F 04 C 3/00, 3/11.

"BEAMS FOR BUILDINGS AND STRUCTURES."

Applicant & Inventor : RAJWANSH BEDI, AN INDIAN NATIONAL, OF ELECTRO MECHANICAL ENGINEERING CORPORATION, 1/24, SARVAPRIYA VIHAR, NEW DELHI-110016, INDIA.

Application for Patent No. 451/Del/85 filed on 5th June, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

5 Claims

A beam for building and structures which is tapered uniformly from its middle portion towards its ends so that the stress to which the beam is subjected to when loaded are substantially the same at all cross sections of the same, said tapering being effected in the depth of the beam, the web of which is reduced uniformly in depth from the mid portion of the beam towards its ends.

Compl. specn. 7 pages.

Drg. 1 sheet

CLASS : 163381

Int. Cl. : A 23 L 1/10.

A PROCESS FOR THE PREPARATION OF A FOOD PRODUCT RICH IN PROTEINS AND CALORIES.

Applicant : GANESH SCIENTIFIC RESEARCH FOUNDATION OF 64-65, NATAFGARH ROAD, NEW DELHI-110015, INDIA, AN INDIAN REGISTERED SOCIETY.

Inventor : HIMADRI KUMAR DAS.

Application for Patent No. 367/Del/85 filed on April 30, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

CLASS : 163384

Int. Cl⁴ : H 01 K 3/00.

"COLUMN MOUNTED APPLIANCES".

Applicant : ABACUS MUNICIPAL LIMITED, A BRITISH COMPANY, OF SUTTON-IN-A-HFIELD, NOTTINGHAMSHIRE, NG17 5FF, ENGLAND.

Inventor : JOHN WILLIAM PRATT.

Application for Patent No. 386/Del/86 filed on 29th April, 1986.

Ante-dated to 09 January, 1984.

Divisional to application No. 32/Del/84 filed on 09 January, 1984.

Convention date 28th January, 1983/8302389/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

12 Claims

A column-mounted appliance comprising :

a column composed of lower column part and an upper column part;

a generally horizontal pivot by means of which said upper column part is connected to said lower column part for pivotal lowering and raising movement relative thereto; an appliance mounted on said upper column part; means permitting said upper column part to be moved relative to said lower column part through a limited vertical displacement between a lock position and a release position;

a mechanical interlock operative to prevent said upper column part from being pivotally lowered about said generally horizontal pivot unless said upper column part is first moved through said vertical displacement into said release position; and

a lowering device capable of being connected to said column to assist in pivotally lowering said upper column part said lowering device incorporating (i) a lever having a first attachment portion at one end and a footpad at the other end thereof, said first attachment portion being capable of connection to said lower column part, (ii) a base part having a second attachment portion which is capable of connection to said lower column part, and (iii) pivot means connecting said base part to said lever at a point intermediate said first attachment portion and said footpad,

whereby when said lowering device is connected to said column foot pressure on said footpad causes said lever to pivot relative to said base part and, as a result to raise said first attachment portion which in turn moves said upper column part from a lock position to a release position.

Compl. specn. 19 pages.

Drgs. 5 sheets

Application for Patent No. 507/Del/85 filed on 27 June, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-1100 005.

14 Claims

A process for recovery of pure terephthalic acid from polyester materials comprising hydrolysis of the polyester material in the presence of a hydrolysing medium such as an acid or an alkali or water at an elevated temperature of 150°C to 250°C followed by neutralizing the product obtained to further obtain at least two fractions of pure terephthalic acid which are fractionally precipitated.

Compl. specn. 18 pages.

CLASS : 163386

Int. Cl. : F 17 D 1/04, H 02 K 9/00.

"APPARATUS FOR DISTRIBUTING COOLING GAS UNDER A RETAINING SLEEVE AT ONE END OF A TURBO-ALTERNATOR ROTOR EXCITATION WINDING".

Applicant : ALSTHOM-ATLANTIQUE, OF 38, AVENUE KLEBER, 75784 PARIS CEDEX 16, FRANCE, A FRENCH BODY CORPORATE.

Inventors : YVES DIEFFENBACHER & CHAVANNES SUR'L ETANG.

Application for Patent No. 450/Del/85 filed on 5th June, 1985.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

7 Claims

Apparatus for distributing cooling gas under a retaining sleeve at one end of an excitation winding of a turbo-alternator rotor having a shaft, poles and a slotted portion, and separated from a stator by an air gap, the apparatus comprising a cylinder of electrically insulating material disposed directly under the end of the winding, said cylinder having gas admission under the situated between coils of said winding, the apparatus further including radial and circumferential walls disposed between the cylinder of insulating material and the rotor shaft to divide an annular orifice between the cylinder of insulating material and the shaft into radial compartments for cold gas inlet and for hot gas outlet, said compartments being connected to inlet and outlet channels disposed between ends of the coils of said winding the apparatus being characterised in that the gas admission and exhaust channels are connected to other channels extending inside said conductors through side openings provided in the conductors, and in that the exhaust channels are connected to a single outlet compartment in the center of each pole of said rotor.

Compl. specn. 12 pages.

Drgs. 5 sheets

CLASS : 163385

Int. Cl⁴ : C 07 C 63/26.

A PROCESS FOR THE RECOVERY OF PURE TEREPHTHALIC ACID FROM POLYESTER MATERIALS.

Applicant : THE DIRECTOR, SIR PADAMPAT RESEARCH CENTRE, A DIVISION OF I. K. SYNTHETICS LTD., OF JAYKANAGAR, KOTA-324003, RAJASTHAN, INDIA, AN INDIAN COMPANY.

Inventors : NARESH DUTTA SHARMA, ASHOK AMRUT VAIDYA AND PURSHOTAM SHARMA.

CLASS : 163387

Int. Cl⁴ : C 06 E 9/00.

"PROCESS FOR THE PRODUCTION OF A SMOKELESS SOLID IGNITOR FOR SOLID FUEL FIRED DOMESTIC OVENS AND APPLIANCES".

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH RAFT MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : MANOJ MOHAN SEN, SAMIRENDU GUPTA, PHANINDRA CHANDRA TAIAPATRA, CHANDA SANJOSH KUMAR, BARUN DAS GUPTA, GAURI SHANKAR DUTTA, SUDIP KUMAR MAITRA.

Application for Patent No. 568/Del/85 filed on 18 July 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

8 Claims

A process for the production of a smokeless, solid ignitor which comprises mixing together screened and dry saw dust or any other woody waste materials with a waxy material and alkali nitrate heating the mixture to the melting of the wax with constant stirring, charging the mixed hot material into a mould to produce a compressed product in the shape of a hollow cylinder, the hollow cylindrical product obtained is coated with molten wax.

Comp. specn. 10 pages.

CLASS : 163388
Int. Cl. : C 21 B 13/02.

"A PROCESS FOR PRODUCING A HIGHLY METALLIZED IRON."

Applicant : VOESTALPINE AKTIENGESELLSCHAFT, AN AUSTRIAN COMPANY, OF 5, MULDENSTRASSE, A-4020 LINZ, AUSTRIA.

Inventors : HERMANN SCHNEIDER, KONSTANTIN MILIONIS, HERMANN PUSCH.

Application for Patent No. 594/Del/85 filed on 24th July, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

10 Claims

A process for producing a highly metallized iron by the direct reduction of iron-oxide-containing materials such as hereinafter described by means of a gasification gas produced in a gasifier by reacting carbon with oxygen and, if desired with steam, upon the addition of sulfur acceptors in a fluidized bed, wherein the gasification gas is supplied to a direct reduction shaft furnace after separation of solid particles carried therewith and at least part of the top gas withdrawn from the direct reduction shaft furnace is compressed after dust scrubbing and is recycled to the gasifier, characterised in that the fluxes of the kind such as herein described are supplied as fine particles separated from the coal in concurrent with, and/or counter-flow to, the fluidized-bed forming gases.

- The top gas from the reduction shaft furnace, which has a concentration of from 15 to 30% CO₂ and a temperature of from 80 to 800°C is recirculated laterally through the well of the gasifier into the region of the fluidized bed, which is maintained at a temperature of at least 1,150°C and
- the solid particles separated from the gasification gas are mixed with dust coal having a grain size of up to 3mm and are recycled into the bottom region of the gasifier above the surface of the slag bath.

Comp. specn. 16 pages.

Drg. 1 sheet

2-247 GI/88

CLASS : 163389

Int. Cl. : BIO 9/00, 9/04, 9/06, 9/12.

"APPARATUS FOR TRANSFERRING PARTICLES FROM ONE ZONE TO ANOTHER".

Applicant : UOP INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE IN THE UNITED STATES OF AMERICA, WITH ITS PRINCIPAL PLACE OF BUSINESS LOCATED AT TEN UOP PLAZA, ALGONQUIN & MT. PROSPECT ROADS, DES PLAINES, ILLINOIS-60016, U. S. A.

Inventors : ARTHUR RAYMOND GREENWOOD.

Application for Patent No. 57/Del/86 filed on 21st Jan, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

7 Claims

Apparatus for transferring particles which are contained within an upper zone and contacted with a first gas in said upper zone in which said particles are contacted with a second with a second gas, wherein said apparatus constitutes a transition zone from which said second gas must be excluded and wherein :

- (1) said particles move successively downward by gravity through said upper zone, said transition zone, and said lower zone;
- (2) the upper zone is comprised of a cylindrical upper section of a vertical vessel having disposed within it a pair of cylindrical, coaxial, radially-spaced screen elements known as an inner screen element and an outer screen element;
- (3) said screen elements confine the particles to form an annular bed of particles;
- (4) an annular gas distribution space is formed between the outer screen element and the side wall of said vessel upper section;
- (5) the first gas flows radially inward from said gas distribution space through said annular bed and then flows upward within said inner screen member in order to exit from the upper zone;
- (6) the lower zone is comprised of a cylindrical lower section of said vessel which is wholly filled with particles and of a smaller diameter than the upper section of the vessel; and
- (7) the second gas flows upward through the particles in the lower zone and enters the space within the inner screen member; said apparatus of said transition zone being characterized in that said apparatus comprises :
 - (a) a tapered portion of said vessel located between the vessel upper section and the vessel lower section, wherein the diameter of said tapered portion of said vessel is at a maximum at the top;
 - (b) a vertical cylindrical outer transition ring member of the same diameter as the outer screen element and attached thereto, where said outer transition ring member extends downward from the bottom of the outer screen element to said tapered side wall and is attached to the side wall; and
 - (c) a vertical cylindrical inner transition ring member of the same diameter as the inner screen element and attached thereto, where said inner transition ring member extends downward from the bottom of the inner screen

element toward the tapered side wall but does not contact the side wall, thereby providing a restricted horizontal cross-sectional area through which particles move in order to enter the lower zone, and where the vertical height of said inner transition ring member is at least equal to the radial thickness of the annular bed.

Compl. Specn. 14 pages.

Drg. 1 sheet.

CLASS : 163390

Int. Cl. : H011 1/00.

"SEMICONDUCTOR DEVICES".

Applicant : WEST HOUSE BRAKE AND SIGNAL COMPANY LIMITED, A BRITISH COMPANY OF PEW HILL, CHIPENHAM, WILTSHIRE, UNITED KINGDOM.

Inventors : ROGER FILLMORE CALMEAD BENNETT.

Application for Patent No. 596/Del/85 filed on 24th July, 1985.

Convention date 24th July, 1984/8418823/(GB).

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

11 Claims

A semiconductor device comprising a semiconductor element having on one of its opposed majorfaces concentric outer and inner annuli of a first region of conductivity and positioned between said outer and inner annuli an annulus of a second region of conductivity, a disc-shaped electrical connector sandwiched between said first region and a contact member constituting a part of the housing of the device, the electrical connector and the contact member both extending over that area of the major face of the semiconductor element which lies within the outer periphery of the outer of the annuli of the first region and both being rotationally and radially located with respect to the semiconductor element, the electrical connector having there through apertures aligned with the annulus of the second region through which project with their extremities engaged with the second region a plurality of electrically interconnected electrical connections, the electrical connections each being urged into engagement with the second region by resilient means located between the connections and the contact member whilst being electrically insulated therefrom, and an electrical contact extending externally of the housing of the device and electrically connected to the interconnected electrical connections.

Compl. Specn. 14 pages.

Drgs. 2 sheets.

CLASS : 32F₂ (a) (c). 163391

Int. Cl. : C07c, 87/00.

"PROCESS FOR PREPARING A MONO SUBSTITUTED AMINO ACID".

Applicant : EXXON RESEARCH AND ENGINEERING COMPANY, A CORPORATION OF DELAWARE, UNITED STATES OF AMERICA, CARRYING ON BUSINESS AS A COMPANY FOR THE HOLDING OF PATENTS AND GRANTING LICENSES THEREUNDER, AND TECHNICAL DEVELOPMENT AND RESEARCH WORK AT PARK AVENUE, FLORHAM PARK, NEW JERSEY, UNITED STATES OF AMERICA.

Inventors : GUIDO SARTORI & WARREN ALAN THALER.

Application for Patent No. 785/Del/1982 filed on 29th October, 1982.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

3 Claims

A process for preparing a mono-substituted amino acid characterized by reacting an amino acid of the kind such as herein described having a primary amino group and a ketone of the kind such as herein described under reductive condensation conditions in the presence of a reductant of the kind such as herein described and a catalytically effective amount of hydrogenation catalyst of the kind such as herein described at an elevated temperature of from 50°C to 200°C and at superatmospheric conditions of from 3.5 to 210.9 kg/cm².

Compl. Specn. 22 pages.

CLASS : 163392

Int. Cl. : G01B 3/18.

"A MICROMETER FOR THE BLIND."

Applicant & Inventor : SNFH ANAND & SUJOY KUMAR GUHA, INDIAN NATIONAL CENTER FOR BIOMEDICAL ENGINEERING, INDIAN INSTITUTE OF TECHNOLOGY, HAUZ KHAS, NEW DELHI-110 016.

Application for Patent No. 102/Del/84 filed on 3rd February, 1984.

Complete specification left on 2nd April, 1985.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

9 Claims

A micrometer for the blind comprising a toothed metallic disc fixed to and rotatable with the sleeve of micrometer, each tooth of the disc having a definite fraction of the pitch of the micrometer screw or linear spindle, an additional screw fixed to the sleeve so as to be rotatable and linearly movable therewith, a nut around the additional screw, a fixed linear scale fixed to the frame of the micrometer and pointer fixed to the said nut and movable over the said scale, the said disc and the linear scale being provided with spaced projections for ascertaining by touch the number of teeth representing the fraction of a rotation of the disc and the number of rotations of the sleeve respectively.

Prov. Specn. 11 pages.

Compl. Specn. 15 pages.

Drg. 1 sheet.

CLASS : 32c. 163393

Int. Cl. : C12d 13/06.

"PROCESS FOR TRANSFORMATION OF YARROWIA LIPOLYTICA INTO VENTORS AND SUBCLONES THEREOF".

Applicant : PFIZER INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 235 EAST 42ND STREET, NEW YORK, STATE OF NEW YORK, UNITED STATES OF AMERICA.

Inventors : LANCE STEVEN DAVIDOW & JOHN ROBERT DEZEEUW.

Application for Patent No. 653/Del/84 filed on 14th August, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

6 Claims

A process for transformation of *yarrowia lipolytica* into vectors and subclones thereof which comprises introducing into said *Y. lipolytica* by integration at homologous sequences DNA comprising a region of homology to said *Y. lipolytica* and a detectable genetic marker.

Compl. Specn. 48 pages.

Drgs. 6 sheets.

CLASS : 32F/2(b).

163394

Int. Class.: - 007c 129/00.

"APROCESS FOR THE PREPARATION OF THIAZO-LYLTHIAZOLE COMPOUNDS".

Applicant : PFIZER INC., a corporation organised under the laws of the State of Delaware, United States of America, or 235 East 42nd Street, New York, State of New York, United States of America.

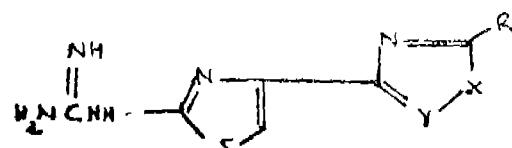
Inventors : JOHN LAWRENCE LAMATTINA AND CHRISTOPHER ANDREW LIPINSKI.

Application for patent No. 120/Del/85 filed on 13th February, 1985.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch New Delhi-110005.

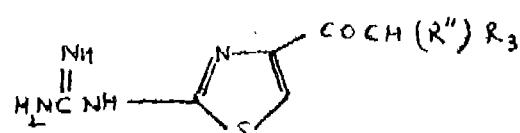
(Claims 2)

A process for the preparation of thiazolylthiazole compounds of the formula I.



and the pharmaceutically acceptable acid addition salts thereof,

Where X is S; Y is CH or C.CH₃; R is hydrogen—NH₂, —NHR₁ or —NHCOR₁, wherein R₁ is alkyl of 1 to 6 carbon atoms or —(CH₂)^m Ar; m is zero or an integer from 1 to 4; and Ar is phenyl or phenyl monosubstituted with chloro, bromo, fluoro, alkyl of 1 to 3 carbon atoms or alkoxy or 1 to 3 carbon atoms; characterised in that a compound of the formula III.



Where in R'' is hydrogen or methyl and R₃ is halo, is reacted with a compound of the formula RC(S)NH₂ wherein R is as defined above, and if desired, reacting a compound of formula I thus obtained where R is —NH₂ with an alkyl or aralkyl halide to the corresponding compound wherein R is NHR₁ wherein R₁ is as defined above, or with a carboxylic acid halide or anhydride to form the corresponding compound wherein R is —NHCOR₁, wherein R₁ is as defined above, and,

If desired, reacting the resulting compound of formula I with a pharmaceutically acceptable acid to form a pharmaceutically acceptable salt.

(Complete specification 17 pages

Drawing 1 Sheet.)

CLASS : 190 B.

163395

Int. Cl : F02c 7/00.

SWING BLADE CROSSWIND AXIS TURBINE.

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : BALJEET SINGH & DAVINDER SINGH.

Application for Patent No. 273/Del/85 filed on 29th March, 1985.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

2 Claims

A swing blade crosswind axis turbine for converting wind energy into mechanical energy comprising a vertical shaft (1) provided on a foundation, a rotor (2) around its vertical axis, provided on the vertical shaft and having a toothed wheel (3) at its lower portion and a movable horizontal shaft (5) at its upper portion such that the centre of the horizontal shaft lies in the vertical axis of the rotor, straight blades (7, 8) provided on either side of the horizontal shaft at equal distance from the centre of the vertical axis of the rotor such that the plane of one blade is at right angle to the plane of the other blade, the lower ends of the blades are provided on the horizontal shaft so that the whole blade lies above the horizontal shaft when it is in vertical position, control bars (9, 10) are provided on either side of the horizontal shaft, stoppers (11, 12) provided on the rotor for regulating movement of the blades when it assumes 90° position, springs (13 & 14) placed between the rotor and the control bars to counter the effect of weight of blade in 0° position.

Compl. Specn. 8 pages.

Drgs. 3 sheets.

Class :—32F/1 & 2(b), 55E/2

Int. Class :—C07d 55/06.

"PROCESS FOR THE PREPARATION OF NEW 1, 2, 4-TRIAZOLE DERIVATIVES".

Applicant :—ALKALOIDA VEGYESZETIGYAR, of Tisza-vassvarj 4440, Hungary, a Hungarian Company.

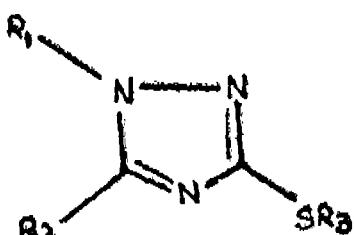
Inventors :—TAMAS SOMORAI, GEZA SZILAGYI, JOZSEF REITER GABOR NAGY, JUDIT JANAKY, FERENC ANDRASI and EVA BOZO.

Application for patent no. 47/Del/85 filed on 23rd January, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972), Patent Office Branch, New Delhi-5.

(2 claims)

A process for the preparation of new 1, 2, 4-trizole derivatives of the general formula (I)



Formula I

wherein :

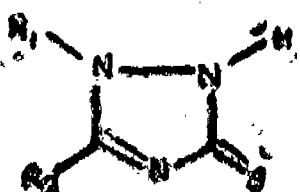
R₁—represents an unsubstituted phenyl group or a phenyl group substituted by one or more fluorine, chlorine or bromine atoms, C₁₋₄-alkyl, C₁₋₄-alkoxy, nitro, trifluoromethyl, C₁₋₄-alkylthio, C₁₋₄-alkylsulfinyl or C₁₋₄-alkylsulfonyl groups, furthermore a naphthyl group.

R₂ represents an unsubstituted phenyl group or a phenyl group substituted by one or more fluorine, chlorine, or bromine atoms, C₁₋₄-alkyl, C₁₋₄-alkoxy, nitro, trifluoromethyl, C₁₋₄-alkylthio, C₁₋₄-alkylsulfonyl or C₁₋₄-alkylsulfonyl groups, furthermore a thienyl group.

R₃ represents an unsubstituted C₁₋₄ alkyl group or a C₁₋₄-alkyl group substituted by one or more fluorine or chlorine atoms, hydroxy, C₂₋₄-alkoxycarbonyl, cyano or pyridyl groups, furthermore C₂₋₄-alkoxycarbonyl, C₂₋₅-oxoalkyl groups or a phenyl-C₁₋₄-alkyl group substituted by one or more fluorine or chlorine atoms on the phenyl ring.

with the proviso that when R₃ stands for a methyl group, only one of R₁ and R₂ may be an unsubstituted phenyl group, characterised by reaching a compound of the general formula.

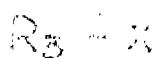
(II)



Formula II

wherein R₁ and R₂ are as defined above dissolved in an inert solvent, of the kind such as herein defined in the presence of an organic or inorganic base of the kind such as herein defined

in alkaline pH range of 8 to 10, with a compound of the general formula (III)



Formula III

wherein R₃ is as defined above and X represents a halogen atoms or a (oxy) group, to produce a compound of the general formula (I) wherein R₁, R₂ and R₃ are as defined above.

(Complete specification 28 pages)

Drawing one sheet

CLASS : 68B & 146D₃

163397

Int. Cl. : G02b 1/00, H02g 7/10.

"OVERHEAD FLEXIBLE ELECTRIC CONDUCTOR FOR FREELY SUPPORTING FROM SPACED SUPPORTS IN LONG LENGTHS".

Applicant : BICC PUBLIC LIMITED COMPANY, A BRITISH COMPANY OF 21 BLOOMSBURY STREET, LONDON WC1B 3QN, ENGLAND.

Inventors : JOHN EDWARD TAYLOR & IAN WILLIAM KEENE.

Application for Patent No. 192-Del/85 filed on 8th March, 1985.

Convention date 14th March, 1984/8406636/(U. K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

29 Claims

An overhead flexible electric conductor for freely supporting from spaced supports in long lengths, which conductor comprises at least one layer of helically wound bare elongate elements of metal or metal alloy such as herein described, at least one elongate compartment within and extending throughout the length of the conductor and, loosely housed in the elongate compartment or at least one of the elongate compartments, at least one optical fibre element comprising a flexible tube having a bore in which at least one optical fibre is loosely housed such that, when the tube is bent or otherwise flexed, this or each optical fibre is free to move to a limited extent transversely of and with respect to the tube, wherein the flexible tube is resiliently set such that the central longitudinal axis of the tube follows a longitudinally extending path which, between any two longitudinally spaced positions is greater in length than the rectilinear distance between said two positions.

Compl. Specn. 23 pages.

Drgs. 3 sheets.

CLASS : 146D₃

163398

Int. Cl. : G02b 1/04

"AN IMPROVED OPTICAL FIBRE ELEMENT AND METHOD OF MANUFACTURING SAME".

Applicant : BICC PUBLIC LIMITED COMPANY, A BRITISH COMPANY, OF 21 BLOOMSBURY STREET, LONDON WC1B 3QN, ENGLAND.

Inventors : JOHN EDWARD TAYLOR & IAN WILLIAM KEENE.

Application for Patent No. 193/Del/1985 filed on 8th March, 1985.

Convention date 14th March, 1984/8406635/(U. K.).

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

21 Claims

An optical fibre element comprising a flexible tube having a bore in which at least one optical fibre is loosely housed, wherein the tube is resiliently set with the central longitudinal axis of said tube following a longitudinally extending path which, between any two longitudinally spaced positions, is greater in length than the rectilinear distance between said two positions, said resiliently set tube tending, under the action of a longitudinally applied tensile force, to straighten in a lengthwise direction against the action of its resilient set thereby to reduce the tensile force applied to the or each optical fibre and upon removal of the tensile force, returning under the action of its resilient set towards its original form.

Compl. Specn. 29 pages.

Drgs. 3 sheets.

CLASS :

163399

Int. Cl.^a : H05K 7/00.

"A METHOD FOR ENCAPSULATING AN ELECTRICAL COMPONENT"

Applicant : HUGHES AIRCRAFT COMPANY, A COMPANY ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, HAVING PRINCIPAL PLACE OF BUSINESS AT 7200 HUGHES TERRACE, P. O. BOX 45006, LOS ANGELES, CALIFORNIA 90045-0066.

Inventors : SUSAN LORAIN OLDHAM.

Application for Patent No. 328/Del/85 filed on 18th April, 1985.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

8 Claims

A method for encapsulating an electrical component such as herein described to provide resistance to corona discharge at electrical stresses of at least 2100 volts per mil in said component comprising :

- (a) impregnating in any known manner said component with a low viscosity, heat curable composition comprising an uncured polyglycidyl aromatic amine, a polycarboxylic acid anhydride curing agent of the kind such as herein described, and a curing accelerator of the kind such as herein described; and
- (b) curing in any known manner said composition to form an encapsulating layer on said component, said layer being capable of withstanding electric stress of at least 2100 volts per mil.

Compl. Specn. 20 pages.

CLASS :

163400

Int. Cl.^a : B02C 4/00.

Applicant : KRUPP POLYSIUS AG., OF GRAF-GALFN-STRASSE 17 D-4720 BECKUM, FEDERAL REPUBLIC OF GERMANY.

Inventors : HEINRICH HENNE, GOTTHARDT BLASZYK, HUBERT EICKHOLT, LUDGER PHNHERR.

Application for Patent No. 621/Del/1985 filed on 31st July, 1985.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

15 Claims

1. Roller mill comprising :

- (a) a grinding face and roller bodies which roll on this grinding a face,
- (b) a sifting chamber which is arranged above the grinding face and is defined at the bottom by a coarse material hopper opening above the grinding face and at the top has on the outer periphery a ring of guide vanes which forms a connecting passage between the grinding face and the sifting chamber for an air stream charged with material for grinding, the upper end of the sifting chamber being connected to an exhaust pipe for sifting air and fine material,
- (c) a rotating element which is arranged above the coarse material hopper and through which the air stream and fine material pass,

characterised in that

- (d) the rotating element is constructed in the form of a deflecting rotor which has on its outer periphery openings for the whole air stream charged with fine material to pass through, and
- (e) the ring of guide vanes is adjustable.

Compl. Specn. 13 pages.

Drgs. 2 sheets.

CLASS : 69-Q.

163401

Int. Cl. : H 01 h 1/66.

VACUUM INTERRUPTER AND THE PRODUCTION OF ITS ARC ROTATING PORTION.

Applicant : KABUSHIKI KAISHA MEIDENSHA OF J-17, OHSAKI 2-CHOME, SHINAGAWA-KU, TOKYO, JAPAN.

Inventors : 1. YOSHIIYUKI KASHIWAGI, 2. YASUSHI NODA, 3. KAORU KITAKIZAKI.

Application No. 202/Cal/84 filed March 26, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

19 Claims

A vacuum interrupter comprising a pair of separable electrodes (5, 6), each of which consists of a generally disc-shaped and magnetically arc rotating portion (13) and a contact making portion (11) projecting from an arcing surface of the magnetically arc rotating portion (13), the magnetically arc-rotating portion surrounding the contact making portion. The conductivity of the contact making portion being different from that of the magnetically arc rotating portion, a plurality of fingers defined by a plurality of slots (16), each of which extends radially and circumferentially of the magnetically arc-rotating portion (13), and a vacuum envelop which is electrically insulating and enclosing the electrodes (5, 6) in a vacuum tight manner, wherein said magnetically arc rotating portion (13) of at least one (6) of the electrodes (5, 6) is made of a complex metal including 20 to 70% copper by weight and possessing a 2 to 30% IACS electrical conductivity and said contact making portion (14) of said at least one electrode (16) is made of a complex metal including at least

chromium and iron and possessing a 20 to 60% IACS electrical conductivity, the conductivity of the contact making portion of said at least one electrode being higher than that of the magnetically arc rotating portion of said at least one electrode.

Compl. Specn. 58 pages.

Drgs. 13 sheets.

CLASS : 56-F.

163402

Int. Cl. : C 10 c 1/20.

A METHOD FOR THE PRODUCTION OF A LIQUID PRODUCT FROM AN ORGANIC BULK MATERIAL.

Applicant : VEB SCHWERMASCHINENBAU "KARL LIEBKNECHT" MAGDEBURG, DDR-3011 MAGDEBURG, ALT-SALBKE 6-10, DEMOCRATIC REPUBLIC OF GERMAN.

Inventors : 1. WOLFGANG MICHEL, 2. HEINZ PAUL, 3. ANDREAS RUMMEL, 4. GEROSEHER, 5. MANFRED OSSOWSKI, 6. IRMTRUD HEBERLEIN, 7. DIETER KOSTLER, 8. FRANK WILHELM.

Application No. 787/Cal/84 filed November 15, 1984.

Complete Specification left on 19th December, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A method for the production of a liquid product from an organic waste bulk material which consists essentially of :

- (a) providing a charge of dry organic bulk material such as coal said charge being suitable for fluidization in a fluidized bed reaction chamber;
- (b) passing said charge into a reaction chamber capable of containing a fluidized bed;
- (c) conveying only a gas stream consisting essentially of methane or methanol and hydrogen or natural gas into and through said charge in said reaction chamber, said gas stream being a fluidizing medium within said reaction chamber, so that said charge is fluidized within said reaction chamber;
- (d) maintaining pyrolysis reaction temperature of said charge within said reaction chamber containing essentially only said dry organic bulk material and said gas stream, whereby the concentration of the methane in said fluidizing medium is automatically decreased, as the proportion of liquid product formed in said fluidized charge in said reaction chamber is increased, said liquid product having a substantially increased proportion of low-boiling short-chained hydrocarbon components, liquid product from said reaction chamber; and
- (e) withdrawing a spent gas stream from said reaction chamber

Compl. Specn. 21 pages.

Drg. 1 sheet.

CLASS : 69-I & O.

163403

Int. Cl. : H 02 b 1/02.

ELECTRICAL SWITCH PANELS.

Applicant : SIEMENS AKTIENGESELLSCHAFT, OF BERLIN AND MUNICH, WEST GERMANY.

Inventors : 1. ROLF-GUNTER GENZEL, 2. KARL HEINZ ROSSLER.

Application No. 48/Cal/83 filed January, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

Enclosed electrical switch panel comprising :

a switch panel provided with at least one plug-in unit (1) which carries connector elements for complementary connector elements fixedly arranged in the switch panel, and also a pull lever (4) which is pivotable about a horizontal shaft (3);

a pull lever (4) has on one side of the shaft (3) a power arm (4a), which can be swung out from the front of the plug-in unit and back, and on the other side of the shaft (3) a work arm (4b) which is engageable with a recess (5) arranged in a fixed switch panel rail (2), which recess (5) has a front boundary edge (5a) and a rear boundary edge (5b);

said plug-in unit (1) being movable out of its operating position, by the swinging out of the power arm (4a) of the pull lever (4), as the work arm (4b) acts on the rear boundary edge (5b) of the recess (5) of the switch panel rail (2);

said plug-in unit (1) being movable into its operating position, by the swinging back of the power arm (4a) of the pull lever (4), as the work arm (4b) acts on the front boundary edge (5a) of the recess (5) of the switch panel rail (2);

characterised in that a bar, arranged on the plug-in unit (1) by the engagement of a rotary actuator (6), being adapted to be forced to move into the swing path of the power arm (4a) so as to prevent the power arm of pull lever from swinging out from the front of the plug-in unit;

the unblocked powerarm (4a) being adapted to swing out freely by itself, under its own weight, from the front of the plug-in unit until the work arm (4b) lies against the rear boundary edge (5b) of the recess (5) of the switch panel rail (2);

said bar (7) being adapted to lie in the path of the return swing of the swung out power arm (4a) of the pull lever (4), when the plug-in unit (1) is out of its operating position with the actuator (6) engaged, while the work arm (4b) of the pull lever (4) together with the rear boundary edge (5b) of the recess (5) of the fixed switch panel rail (2) forms a block against movement of the plug-in unit (1) into the operating position.

Compl. Specn. 9 pages.

Drg. 1 sheet.

CLASS : 71-B.

163404

Int. Cl. : E 02 d 5/80.

A GROUND ANCHOR AND A GROUND ANCHORING SYSTEM INCORPORATING SAID ANCHOR.

Applicant & Inventor : PETER ALSOP, OF ST. GEORGES HOUSE, IVYCHURCH, KENT, ENGLAND.

Application No. 53/Cal/85 filed January 28, 1985.

Convention date 30th January, 1984 (8402362) U. K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims

A ground anchor comprising a generally flat plate with transverse slot means for receiving and retaining one end of a flexible anchoring web or strap, the plate having a tool-engaging surface for receiving a driving tool such

that, in use, the plate is driven edge-first into the ground by the driving tool, characterised in that the plate includes a projecting flap movable between a cocked position disposed at a first angle to the plate and a released position disposed at a second angle to the plate, the second angle being greater than the first angle.

Compl. Specn. 10 pages.

Drgs. 2 sheets.

CLASS : 32-C.

163405

Int. Cl. : C 07 c 161/00.

A PROCESS FOR PREPARING NITROGEN PHOSPHORUS CONTAINING AGENTS OPTIONALLY IN THE FORM OF AQUEOUS COMPOSITIONS BEING USEFUL AS ASHLESS ANTI-WEAR EXTREME PRESSURE AND/OR LOAD CARRYING AGENTS.

Applicant : THE LUBRIZOL CORPORATION 29400 LAKESIDE BLVD, WICKLIFF, OHIO 44092, U. S. A.

Inventor : 1. JOHN SESLEY FORSBERG.

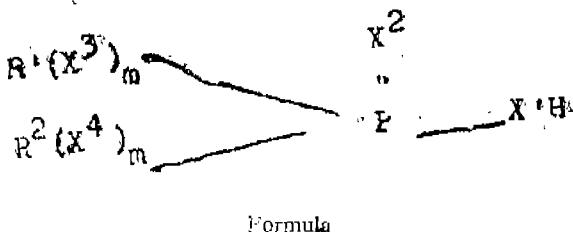
Application No. 91/Cal/85 filed February 11, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

39 Claims

A process for preparing nitrogen and phosphorus containing agents useful as ashless anti-wear, extreme pressure and/or load carrying agents which comprises reacting :

- (A) at least one carboxylic acid acylating agent such as herein described;
- (B) at least one amine characterized by the presence within its structure of at least one HN group; and
- (C) at least one phosphorus-containing acid of the formula



wherein each X¹, X², X³ and X⁴ is independently oxygen or sulfur each m is zero or one, and each R¹ and R² is independently a hydrocarbyl group, the ratio of components (A) and (C) to component (B) is at least one-half an equivalent of each of components (A) and (C) per mole of component (B).

Compl. Specn. 68 pages.

Drgs. Nil.

CLASS : 39-E.

163406

Int. Cl. : C 01 d 11/00.

METHOD OF PROCESSING SODIUM OXALATE FORMED DURING THE DIGESTION OF BAUXITE.

Applicants : (1) METALLGESELLSCHAFT AKTIEN-GESELLSCHAFT, REUTERWEG, D-6000 FRANKFURT AM MAIN, FEDERAL REPUBLIC OF GERMANY; (2) REYNOLDS METALS COMPANY, 601 WEST BROAD STREET, RICHMOND, VIRGINIA 23261, U.S.A.

Inventors : 1. HANS-WERNER SCHMIDT DR. ING, 2. WALTER KOCH, DIPL.-ING, 3. MARTIN HIRSCH, DIPL-ING., 4. KARLHEINZ ROSENTHAL, ING., 5. YII MAZ YETMEN, DR.-ING.

Application No. 198/Cal/85 filed March 16, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

A method of converting contaminated sodium oxalate which becomes available in a separating stage succeeding the digestion of bauxite in accordance with the Bayer process predeterminedly into sodium aluminate characterized in that the moist sodium oxalate which has been separated is dried with the hot exhaust gases from fluidized bed used for conversion in the presence of aluminium hydroxide or aluminium oxide hydrate and/or reactive alumina at a mole ratio of aluminium to sodium of at least 0.8 and the dried product thus obtained is recomposed in said fluidized bed at a temperature of 780 to 1000°C for form sodium aluminate.

Compl. specn. 15 pages.

Drg. 1 sheet

CLASS : 195-D.

163407

Int. Cl. : F 23 1 13/00.

SHUT-OFF/EQUALIZING VALVE WITH MOLDED SEALS.

Applicant : THE BABCOCK & WILCOX COMPANY, OF 1010 COMMON STREET, P.O. BOX 60035, NEW ORLEANS, LOUISIANA 70160, UNITED STATES OF AMERICA.

Inventors : 1. FRANK MACHESKY, 2. LEE ANDREW WEBER.

Application No. 330/Cal/85 filed April 30, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A shut-off/equalizing valve comprising a body and a core assembly rotatable received within said body characterised in that said rotatable core assembly comprises a cylindrical metallic core member including an enlarged barrel portion, said core member having a cross bore formed therethrough in said enlarged portion and a shaft element for positioning said core member within said body; and an elastomeric seal element molded onto said core member, said seal element including a layer of elastomeric material converting circumference of said barrel portion of said cross bore, first and second circumferential sealing ribs adjacent to the openings of said cross bore, and a plurality of longitudinal sealing ribs extending between said circumferential ribs.

Compl. specn. 7 pages.

Drgs. 2 sheets

CLASS :

163408

Int. Cl. : C 21 d 1/00.

IMPROVEMENTS IN THE METHOD OF TAMPERING ROLLED STEEL PRODUCTS.

Applicant : VEB STAHL-UND WALZWERK "WILHELM FLORIN", OF DDR 1122 HENNIGSDORF, VELTNER STRASSE, GERMAN DEMOCRATIC REPUBLIC.

Inventors : 1. TAMM, FRANZ DIPL.-ING. 2. HORICKE,

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

Application No. 381/Cal/85 filed May 18, 1985.
DIPL.-ING.

2 Claims

Improvements in or relating to a method for tempering hot rolled steel products especially the reinforcing steel for concrete which comprises subjecting rolled stock to heat in treatment at temperatures around 1000°C followed by quenching in water and cooling the so treated material to a rolled steel product is subjected to sudden quenching in water balancing temperature characterised in that the heat treated at its surface till a temperature of about 500°C at the surface quenching being so short that termination of the core of the material immediately after the termination of the surface quenching is lowered by a maximum of only 30°C to the original rolling temperature.

Compl. specn. 6 pages.

Drgs. Nil

CLASS 175-J + 177-D.

163409

Int. Cl. : B 01 d 53/26; F 22 g 3/00.

APPARATUS FOR DRYING AND SUPERHEATING STEAM.

Applicant : L & C STEINMULIER GMBH, OF POST-FACH 100855/100865, D-5270 GUMMERSBACH, WEST GERMANY.

Inventors : 1. GUNTER KERINTZEL. 2. KLAUS WESTFBBE.

Application No. 781/Cal/85 filed November 4, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

An apparatus for drying and superheating steam especially for supplying steam to a turbine, with said apparatus including a horizontal cylindrical pressure tank having a wall and having at least one steam inlet as well as having a centerline, a water separator mechanism that is disposed in the lower portion of the pressure tank and extends essentially over the entire length of said tank, a superheater mechanism that is disposed in the upper portion of said pressure tank and extends essentially over the entire length of said tank, and at least one steam outlet disposed on the upper side of said tank and connected to said superheater mechanism so that said water separator mechanism and said superheater mechanism are embodied as structural groups and the steam discharges dried out of said water separator mechanism directly into said pressure tank and from there enters into said superheater mechanism the improvement therewith which comprises :

said pressure tank including two end faces, with said at least one steam inlet being disposed at one of said end faces; said water separator mechanism having a predetermined shape in a direction toward the center line of the tank and having two ends, one of which is wider and receives wet steam from said steam inlet at an angle to the center line of said tank; with said water separator mechanism being disposed in said pressure tank in such a way that dry steam leaving said water separator mechanism enters said superheater tank; said water separator mechanism as structural groups closed in themselves each being self-contained, mounted independent of one another, and supported by said pressure tank as well as being free of any sealing means extending over the entire length of said pressure tank and being held against the wall of said pressure tank.

Compl. specn. 11 pages.

Drgs. 3 sheets

CLASS :

163410

Int. Cl. : F 02 b 69/00.

AN ACCESSORY FOR RUNNING PETROL ENGINES WITH DIESEL AND OTHER OILS.

Applicant & Inventor : ABANINDRA NATH GHOSH, OF J. R. GHOSH'S GARDEN, P.O. LASKARPUR, PIN 743515, DIST. 24-PARGANAS, WEST BENGAL STATE, INDIA.

Application No. 954/Cal/86 filed December 29, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

An accessory for running petrol engines with diesel and other oils comprising a container for fuel oil, one or more heaters for heating said oil, means for circulating the hot radiator water of the engine through said oil in said container, one or more holders containing catalytic agents kept partly or wholly immersed in said oil with means for allowing circulation of said oil through said catalytic agents, and means for releasing air locking.

Compl. specn. 8 pages.

Drgs. 1 sheet

Class — 32F/2(b).

Int. Class :—C07d 49/00, 45/00, 47/00, 51/00.

"A PROCESS FOR PREPARING A POLYMERISABLE TERTIARY AMINE CONTAINING MONOMERS".

Applicant :—Imperial Chemical Industries, a British company of Imperial Chemical House, Millbank, London SWP 3JF, England.

Inventors :—GEORGE EMILE ABBU, CHRISTOPHER HENRY SUCH, SUSAN MARY HORLEY AND JULIAN ALFRED WATERS".

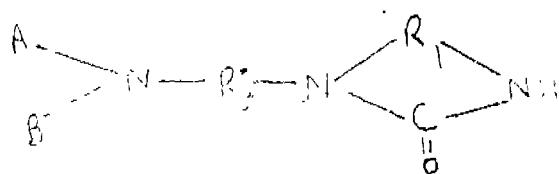
Application for patent no. 20/Del/82 filed on 12th October, 1982.

Convention date 23rd October, 1981/8132086 and 30th April, 1982/8212639/(U.K.)

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

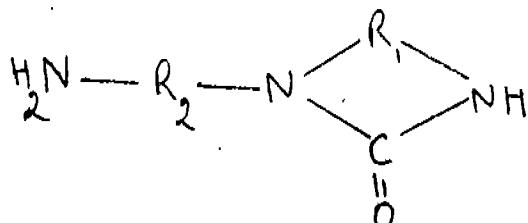
(Claims 7)

A process of preparing a polymerisable tertiary amine-containing monomer of structure I.

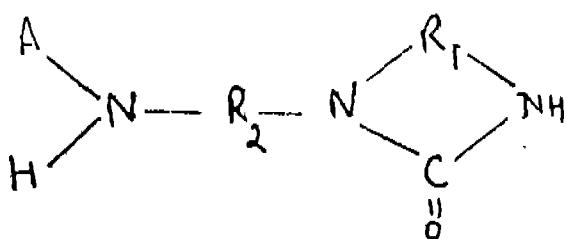


wherein R₁, R₂, A & B are defined below, which comprises the steps:

- (i) reacting one of the amine hydrogen atoms of a primary amine of structure II



wherein R₁ and R₂ are alkylene groups containing 2 of carbon atoms with a monofunctional epoxide compound free from an ester linkage adjacent an unsaturated olefinic group to provide an intermediate secondary amine of structure III.



wherein R₁ and R₂ are as above defined and the group A is a substituted C₂-18 alkyl group the product of reacting the said monofunctional epoxide compound with the said amino hydrogen atom,

- (ii) reacting the secondary amino hydrogen atom of the intermediate secondary amine of structure III obtained in (i) above with an epoxide group-containing material to provide a tertiary amine of structure I above, wherein R₁, R₂ and A are as defined in (i) and the group B is a substituted C₂-18 alkyl group the same as or different from A the product of reacting the said epoxide group containing compound with the said secondary amino hydrogen atom,

at least one of said group A & B comprising in a substituent at least one polymerisable ethylenically unsaturated group.

(Complete specification 16 pages

Drawing one Sheet)

CLASS : 40 B.

163412

Int. Cl. : B 01 j-11/00.

"METHOD OF PREPARING A CATALYST COMPOSITION".

Applicant : UOP INC., A CORPORATION ORGANISED IN THE STATE OF DELAWARE, WITH ITS PRINCIPAL PLACE OF BUSINESS AT TEN UOP PLAZA, ALGONQUIN & MT. PROSPECT ROADS, DES PLAINES, ILLINOIS 60016, U. S. A.

Inventors : TAMOTSU IMAI AND CHI-WEN HUNG.

Application for Patent No. 50/Del/1984 filed on 18th January, 1984.

3-247 GI/88

Appropriate office for opposition proceedings (Rule, 4 Patents Rules, 1972) Patent Office Branch, New Delhi-5.

13 Claims

A method of preparing a catalyst composition comprising compositing a platinum group component of the kind such as herein described, a Group IVA component, an alkali or alkaline earth component of the kind herein described, more than about 0.2 wt. %, calculated on an elemental basis, of a halogen component of the kind such as herein described and a porous carrier material of the kind such as herein described, wherein the atomic ratio of the alkali or alkaline earth component to the platinum group component is more than 10.

Compl. specn. 28 pages.

Drgs. 3 sheets

CLASS : 150 C.

163413

Int. Cl. : F 161 21/00.

"A PITCH FIBRE PIPE COUPLING".

Applicant : SONTI VENKATA KRISHNAMURTY AND GAUTAM SONTI, BOTH INDIAN NATIONALS OF B-4/150-1, SAFDAR JUNG ENCLAVE, NEW DELHI-110029, INDIA.

Inventors : SONIT VENKATA KRISHNAMURTY AND GAUTAM SONTI.

Application for Patent No. 181/Del/84 filed on 29th February, 1984.

Appropriate office for opposition proceedings (Rule, 4 Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

5 Claims

A coupling member for coupling a first pitch fibre pipe to a second pitch fibre pipe, said coupling member being a tubular member having a collar on the outer surface thereof, a groove provided on said member on either sides of said collar, characterized in that said groove is of an arcuate section for receiving a resilient sealing ring disposed within said groove, said ring having an outwardly extending resilient tongue along its outer surfaces.

Compl. specn. 9 pages.

Drg. 1 sheet

Class : 32F₁ & 55E₄.

163414

Int. Class : CO7c 51/00.

"A PROCESS FOR THE PREPARATION OF 2-(2-SUBSTITUTED-AMINOTHIAZOL-4-Y)-2-OXYIMNOACETIC ACID DERIVATIVES".

Applicant : BIOGAL GYOGYSZERGYAR, OF 13, PALLAGIUT, DEBRECEN 4042, HUNGARY, A HUNGARIAN COMPANY.

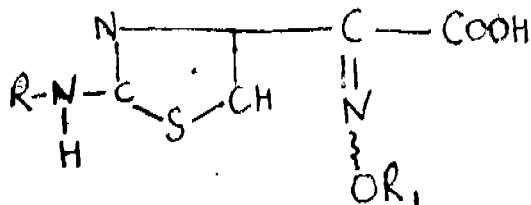
Inventors : LAJOS TOLDY, BELA REZESSY, GABOR FETHY & ISTVAR TOTH.

Application for Patent No. 776/Del/84 filed on 5th October, 1984.

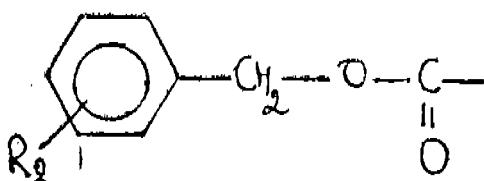
Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-5.

(3 claims)

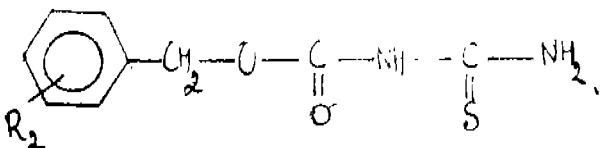
A process for the preparation of 2-(2-substituted-amino-thiazol-4-yl)-2-oxyimino-acetic acid derivatives of general formula (i)



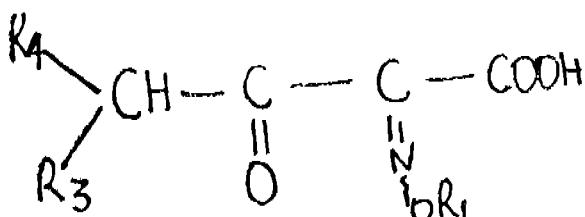
wherein R stands for radical of formula (ii)



wherein R₂ represents a hydrogen atom, halogen atom, C₁₋₄ alkyl, C₁₋₄ alkoxy or nitro group and R₁ stands for a hydrogen atom or a C₁₋₄ alkyl group optionally substituted by a carboxy group, C₁₋₄ alkyl esters, reactive acyl derivatives and salts thereof, as well as their stereoisomer and mixtures thereof, said process comprises reacting a thiourea of



general formula (iii) wherein R₂ has the same meaning as above with a C₁₋₄ alkoxyester of a 2-oxyimino-3-oxo-4-halo-butrylic acid of general formula IV



wherein R₁ has the same meaning as above, R₃ and R₄, which can be identical or different, stand for a hydrogen or halogen atom with the proviso that from R₃ or R₄ at least one stands for a halogen atom and the, if desired, the obtained alkyl ester of a derivative of a compound of general formula I is converted into the free acid which can be transformed into a reactive acyl derivatives by any known method.

(Complete specification 30 pages.)

Drawing 1 sheet

CLASS : 12 D & 103 D.

163415

Int. Cl. : C 23 b 11/00.

PROCESS FOR MANUFACTURE OF FERROUS METAL PARTS HAVING IMPROVED CORROSION RESISTANCE.

Applicant : CENTRE STEPHANOIS DE RECHERCHES MECANIQUES HYDROMECHANIQUE ET FROTTEMENT, A FRENCH COMPANY, OF RUE BENOIT FOURNEYRON, ZONE INDUSTRIELLE SUD, 42160 ANDREZIEUX-BOUTHEON, FRANCE.

Inventors : YVES TREMOUREUX & JEAN-LUC REYNAUD.

Application for Patent No. 227/Del/85 filed on March 18, 1985.

Appropriate office for opposition proceedings (Rule, 4 Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

12 Claims

A process for the manufacture of ferrous metal parts having improved corrosion resistance, which comprises subjecting said parts to nitriding in association or not with carburising and/or sulphurising characterised by contacting said parts with a bath of molten salts of the kind such as herein described, said bath also containing at least one halogeno-phosphate selected from the compounds of formulae : M₂(POX)_m wherein X and X' are halogens and M is a metal having a valency m.

(Compl. Specn. 12 pages.)

163416

Int. Cl. : A 61 B 17/00.

"A NASAL FILTER."

Applicant : THE DIRECTOR, ALL INDIA INSTITUTE OF MEDICAL SCIENCE, ANSARI NAGAR, NEW DELHI-110029, INDIA, AN INDIAN NATIONAL.

Inventors : JAGJIT SINGH PASRICHA.

Application for Patent No. 243/Del/85 filed on 22nd March, 1985.

Appropriate office for opposition proceedings (Rule, 4 Patents Rules, 1972) Patent Office Branch, New Delhi-5.

3 Claims

A nasal filter comprising an insert for each nose and consisting of a frame having an opening for receiving a filtration member said frame having an anterior portion extending through a lateral and medial portion to a posterior portion characterized in that said frame is made of any known soft and resilient material such as natural or synthetic latex, said filtration member being a netting material such as of polyamide, polyesters or natural cellulose.

Compl. Specn. 6 pages.

Drg. 1 sheet.

163417

Int. Cl. : G 03 c 3/00.

A METHOD OF MANUFACTURING A LIGHT-WEIGHT PHOTORESPONSIVE STRUCTURE.

Applicant : ENERGY CONVERSION DEVICES, INC., A DELAWARE CORPORATION, HAVING A PLACE OF BUSINESS AT 1675 WEST MAPLE ROAD, TROY, MICHIGAN 48084, UNITED STATES OF AMERICA.

Inventor : JOSEPH JOHN HANAK, PREM NATH, MASATSUGU IZU, JAMES YOUNG.

Application for Patent No. 257/Del/85 filed on 26 March, 1985.

Appropriate office for opposition proceedings (Rule, 4 Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

3 Claims

A method of manufacturing a lightweight photoresponsive structure having a thin, electroformed metallic substrate comprising first forming a metallic substrate with at least one side thereof textured to features diffusely reflecting light by (a) texturizing the outer surface of a temporary support to produce features diffusely reflecting light, (b) contacting and moving said outer surface through an electroplating bath and (c) electroplating a metallic material on said outer surface as said outer surface is moved through said bath and (d) peeling off said metallic material from said outer surface of said temporary surface to obtain said metallic substrate having said features diffusely reflecting light, depositing a photoresponsive material such as herein described on said textured side of said metallic substrate.

(Compl. specn. 24 pages.

Drgs. 3 sheets

CLASS :— 32F2(b).

163418

Int. Class 4 :—CO8F 2100, 110/00, 2, 10, 2/14.

"PROCESS FOR PREPARING POLYMER DISPERSIONS FROM TERTIARY AMINE CONTAINING MONOMERS".

Applicant :— IMPERIAL CHEMICAL INDUSTRIES PLC., a British company, of Imperial Chemical House, Millbank, London SW1P 3JF, England.

Inventors :— GEORGE EMILE ABOUD, CHRISTOPHER HENRY SUCH, SUSAN MARY HORLEY & JULIAN ALFRED WATERS.

Application for patent no. 779/Del/85 filed on 24th September 1985.

Ante—dated to 12th October, 1982.

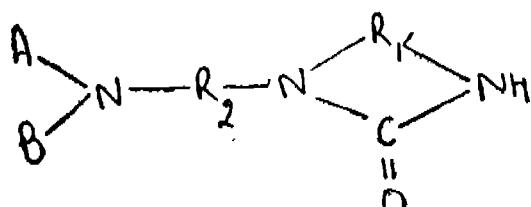
Divisional to application no. 750/Del/82 filed on 12th October, 1982.

Convention date 23rd October, 1981/8132086 & 30th April, 1982/8212639/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

(Claims 5)

A process for preparing a stable, water-dilutable dispersion of polymer particles wherein polymerisable ethylenically unsaturated monomers of the kind such as herein described are fed to a site of polymerisation and are co-polymerised in water/and/or in a water-miscible liquid, at least 0.1% by weight of said monomers based on the total weight thereof comprising a monomer of the structure I



wherein R₁ and R₂ are alkylene groups containing 2 or 3 carbon atoms and A and B are substituted C₂₋₁₈ alkyl groups, the same or different, at least one of said groups A and B comprising in a substituent at least one polymerisable ethylenically unsaturated group and up to 99.9% by weight of said monomers comprising monomers co-polymerisable with said monomer of structure I

(Complete specification 26 pages

Drawing 1 sheet).

In. Class 4 :— CO7C 85/00, 87/00.

163419

"PROCESS FOR PREPARING A SECONDARY AMINE".

Applicant :— IMPERIAL CHEMICAL INDUSTRIES PLC., a British company, of Imperial Chemical House, Millbank, London SW1P 3JF, England.

Inventors :— GEORGE EMILE ABOUD, CHRISTOPHER HENRY SUCH, SUSAN MARY HORLEY & JULIAN ALFRED WATERS.

Application for patent no. 832/Del/85 filed on 8th October, 1985.

Ante—dated to 12th October, 1982.

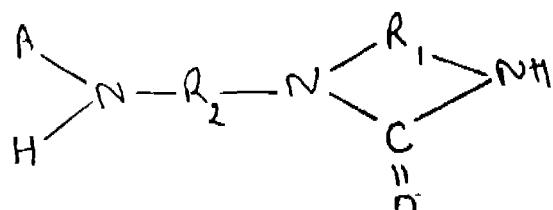
Divisional to application no. 750/Del/82 filed on 12th October, 1982.

Convention date 23rd October, 1981/8132086 & 30th April, 1982/8212639/(U.K.).

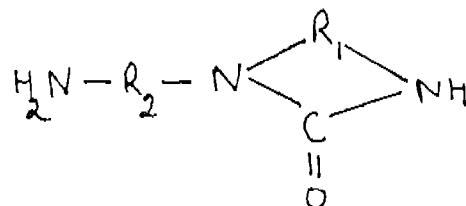
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

(Claims 6)

A process for preparing a secondary amine of the general formula III



wherein R₁, R₂ and A are as defined below, which comprises reacting one of the amino hydrogen atom of a primary amine of the structure II



wherein R₁ and R₂ are alkylene groups containing 2 or 3 carbon atoms, with a monofunctional epoxide compound of the kind such as herein described free from an ester linkage adjacent an unsaturated olefinic group to provide said secondary amine of general formula III, wherein the group A is a substituted C₂₋₁₈ alkyl group.

"Secondary amines of this invention are useful for manufacture of polymers, polymer dispersions and coating compositions".

(Complete specification 15 pages

Drawing 1 sheet).

CLASS : 163420

Int. Cl.⁴ : C 07 D 103/10.

"A PROCESS FOR PRODUCTION OF A 3, 4-DIHYDRO-2H-1, 2-BENZO-THIAZINE-3-CARBOXAMIDE-1, 1-DIOXIDE".

Applicant : PFIZER INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 235 EAST 42ND STREET, NEW YORK, STATE OF NEW YORK, UNITED STATES OF AMERICA.

Inventor : JOSEPH ANTHONY KARDYS.

Application for Patent No. 863/Del/82 filed on 16th October, 1985.

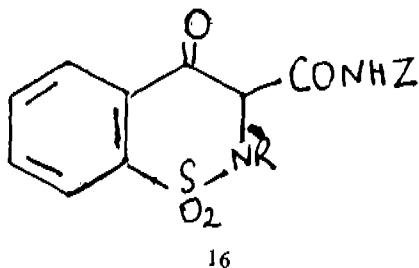
Ante-dated to 30th June, 1982.

Divisional to application No. 490/Del/82 filed on 30th June, 1982.

Appropriate office for opposition proceedings (Rule, 4 Patents Rules, 1972) Patent Office Branch, New Delhi-5.

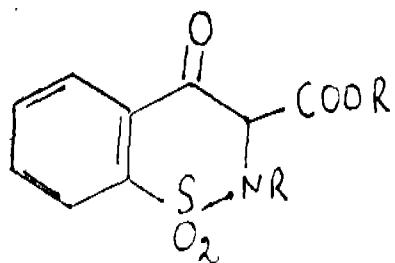
8 Claims

A process for production of a 3, 4-dihydro-2H-1, 2-benzo-thiazine-3-carboxamide-1, 1-dioxide of the formula IV

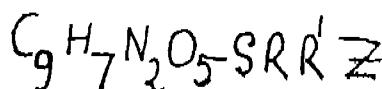


wherein R is hydrogen, nenzyl or alkyl having one to three carbon atoms; and Z is benzopyronyl, alkyl substituted benzopyronyl, 2-pyridyl, alkyl substituted 2-pyridyl, 2-thiazolyl, 2-thiazolyl substituted by one or two alkyl groups or 5-alkyl-3-isoxazolyl, each alkyl having from one to four carbon atoms; which comprises the steps of;

(a) reacting an ester of the formula II



wherein R¹ is benzyl or alkyl having from one to four carbon atoms, with an equimolar amount of an amine of the formula ZNH₂ in the presence of a reaction inert organic solvent of the kind as herein described at a temperature of from 0 to 110°C to provide an intermediate compound of the empirical formula I



and optional isolation in any known manner of said intermediate.

(b) heating said intermediate in the presence of reaction inert organic solvent of the kind such as herein described at a temperature of from 120 to 200°C.

The compound of the invention is used as an anti-inflammatory agents.

Compl. specn. 26 pages.

Drugs. 3 sheets

CLASS : 163421

Int. Cl.⁴ : F 16 K 25/04, 29/00.

"VALVE MEANS FOR A STEAM TURBINE".

Applicant : PROIZVODSTVENOE OBIEDINENIE TURBOSTROENIJA "LENINGRADSKY METALLICHESKY ZAVOD", OF SVERDLOVSKAYA NABEREZHNAЯ, 18, LENINGRAD, U.S.S.R., A U.S.S.R. COMPANY.

Inventors : KONSTANTIN GRIGORIEVICH DROZHLOV.

Application for Patent No. 470/Del/85 filed on 12 Jun. 1985.

Appropriate office for opposition proceedings (Rule, 4 Patents Rules, 1972) Patent Office Branch, New Delhi-5.

2 Claims

A valve means for a steam turbine, comprising a casing and a cup mounted rigidly connected to each other, the cup having a passage for establishing communication of the interior of the valve means with the turbine cylinder, the passage being shutable by a relief valve therein, said relief valve being connected to a rod which is installed in a bush mounted co-axially with the casing, piston rings being mounted in the bush on the side facing toward the casing; a sleeve being provided between the portion of the bush carrying the piston rings and said casing, the sleeve being rigidly secured to the casing and having on the surface thereof facing toward the bush a layer of chemically deposited nickel, an annular groove being made in each piston ring on the side facing toward the sleeve, and radial passages are provided in each piston ring for establishing communication of a space defined between the annular groove and the sleeve with a space between the bush and the inner surface of the piston ring.

Compl. specn. 9 pages.

Drugs. 2 sheets

CLASS : 163422

Int. Cl.⁴ : C 09 D 1/02.

"A PROCESS FOR THE PREPARATION OF A PAINT HAVING FIRE RESISTANT PROPERTIES."

Applicant : SHRI RAM INSTITUTE FOR INDUSTRIAL RESEARCH, 19 UNIVERSITY ROAD, DELHI-110007, INDIA, AN INDIAN INSTITUTE, REGISTERED UNDER SOCIETIES ACT.

Inventors : DATTA PRASAD ACHYUT DANHOLKAR, ANIRUDH KUMAR AGGARWAL & RAKESH CHANDRA SOOD.

Application for Patent No. 673/Del/85 filed on 19th August, 1985.

Appropriate office for opposition proceedings (Rule, 4 Patents Rules, 1972) Patent Office Branch, New Delhi-5.

5 Claims

A process for the preparation of a paint having fire resistant properties which comprises in preparing a paste of sodium silicate in water, adding a dispersion of titanium dioxide thereto and then adding magnesium chloride and/or sodium chloride and/or glycols such as ethylene glycol.

Compl. specn. 6 pages.

CLASS : 163423

Int. Cl.⁴ : C 09 K 15/04.

"AN ORGANIC COMPOSITION STABLE AGAINST OXIDATIVE DEGRADATION".

Applicant : THE GOODYEAR TIRE & RUBBER COMPANY, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF OHIO, UNITED STATES OF AMERICA HAVING OUR PRINCIPAL PLACE OF BUSINESS AND A POST OFFICE ADDRESS AT 1144 EAST MARKET STREET, AKRON, OHIO 44316-0001, UNITED STATES OF AMERICA.

Inventors : RICHARD HENRY KLINE.

Application for Patent No. 732/Del/85 filed on 4th September, 1985.

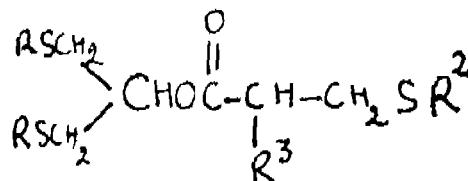
Ante-dated to 1st March, 1982.

Divisional to application No. 168/Del/82 filed on 1st March, 1982.

Appropriate office for opposition proceedings (Rule, 4 Patents Rules, 1972) Patent Office Branch, New Delhi-1100 005.

4 Claims

An organic composition stable against oxidative degradation comprising (a) organic material selected from the group of oxidizable polymers, oils, resins, waxes and fuel (b) a phenolic antioxidant of the kind such as herein described and (c) a compound of the formula I



wherein R, R' and R^a are alkyl radicals having 1 to 20 carbon atoms, phenyl radicals which may be substituted by 1 or 2 alkyl groups having 1 to 8 carbon atoms, aralkyl radicals having 5 to 12 carbon atoms and R^a is hydrogen or an alkyl radical having 1 to 4 carbon atoms; the ratio of (c) to (b) ranging from 1 to 4 to 4 to 1.

Compl. specn. 18 pages.

Drg. 1 sheet

CLASS : 163424

Int. Cl.⁴ : H 01 M 4/04.

A METHOD OF MAKING AN ELECTROCHEMICAL CELL.

Applicant : RAYCHEM LIMITED, A BRITISH COMPANY, OF FARADAY ROAD, DORCAN, SWINDON, WILTSHIRE, ENGLAND.

Inventors : (1) ROBERT HAMILTON MCLOUGHLIN (2) GEORGE BARRY PARK, (3) JOHN ANTHONY COOK.

Application No. 825/Mas/84 filed November 2, 1984. Convention date : November 2, 1983. (No. 8329207 UNITED KINGDOM).

Appropriate office for opposition proceedings (Rule, 4 Patents Rules, 1972) Patent Office, Madras Branch.

9 Claims

A method of making an electrochemical cell which comprises :

- (a) melt-extruding a tube of protective material such as herein described around a strip of alkali or alkaline earth metal such as herein described which is capable of functioning as an electrode in the cell, so as to encapsulate the strip of metal;
- (b) deforming the strip of metal while encapsulated by the protective material so as to increase its surface area substantially;
- (c) removing the protective material during, after or immediately before incorporating the strip of metal in the cell; and
- (d) incorporating the strip of metal in the cell.

Compl. specn. 13 pages.

Drg. 1 sheet

163425

Int. Cl.⁴ : B 65 D 83/00.

A METHOD OF MANUFACTURING A DISPENSING METAL PHOSPHIDE COMPOSITION.

Applicant : DR. WERNER FREYBERG CHEMISCHE FABRIK DELITIA NACHF, A GERMAN COMPANY, OF BERGSTRASSE, 6941 LAUDENBACH, FEDERAL REPUBLIC OF GERMANY.

Inventors : (1) WOLFGANG FELIX ROBERT FRIEMEL (2) JAMES RONALD ALLEN.

Application No. 1009/Mas/84 filed December 18, 1984.

Divisional to Patent No. 156296 (393/Cal/82)

(Ante-dated to 18th June, 1979).

Appropriate office for opposition proceedings (Rule, 4 Patents Rules, 1972) Patent Office, Madras Branch.

2 Claims

A method of manufacturing a dispensing means containing packed hydrolysable metal phosphide composition such as herein described in a ready to use form, enclosed in measured lots separately in readily moisture- and gas-previous, but dust-proof pockets, which comprises placing two plies of flexible strip-shaped thermoplastic material one above the other, the thermoplastic material being substantially moisture-free, non-hygroscopic and tear-resistant, and at least one of the plies being a readily moisture and gas-privious non-woven fabric composed largely or wholly of at least predominantly randomly orientated matted thermoplastics fibres, subjecting the two plies to the action of a heated tool such as a platen bar operated to produce parallel, welding seams transverse to the plies, forming a plurality of adjoining pockets closed on three sides and hinged together by the flexible thermoplastic material, the pockets being dimensioned to accommodate the measured lots of composition and being sufficiently expansible to allow for the volume increase of the composition resulting from the hydrolysis of the metal phosphide on exposure to fourth sides of the pockets the measured lots of composition, closing the fourth sides of the pockets by a further heat

formed weld, rolling the resulting product into a substantially cylindrically shaped coil or folding it concertina-like into a compact pocket, positioning the coil or pocket into a container of airtight material and sealing the container in an airtight manner for prolonged storage and transport.

The packed composition prepared according to this invention is useful in fumigating closed spaces, particularly where agricultural commodities are stored.

Compl. specn. 25 pages.

Drgs. 1 sheet

3 Claims

A process for the selective production of mixtures of linear, primary alcohols of 1 to 5 carbon atoms comprising reacting at 250°C to 500°C, carbon monoxide and hydrogen at a molar ratio of 1:10 to 10:1 in the vapor phase, and in the presence of a catalyst consisting of molybdenum sulfide and alkali metal compounds such as herein defined in an amount of 0.2 to 2 moles per mole of molybdenum sulfide, wherein the hydrogen and carbon monoxide gas reactants are fed to the reaction at a rate of 3,000 to 24,000 liters per liter of catalyst per hour.

Compl. specn. 37 pages.

Drgs. Nil

CLASS : 163426

Int. Cl.⁴ : F 02 M 43/00.

A FUEL REPLACEMENT SYSTEM FOR USE IN AN INTERNAL COMBUSTION ENGINE.

Applicant : CUMMINS ENGINE COMPANY, INC., AN INDIAN CORPORATION, OF 1000 5TH STREET, COLUMBUS, INDIANA 47201, U.S.A.

Inventors : VINOD K. DUGGAL, EDWARD D. SMITH, EDWARD J. LYFORD-PIKE.

Application No. 1023/Mas/84 filed 21 December 1984.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras-2.

10 Claims

A fuel replacement system for use in an internal combustion engine for partially replacing diesel fuel supplied to the combustion chambers of the internal combustion engine with a secondary fuel comprising : a primary fuel injection means supplying primary fuel to the internal combustion engine combustion chambers; a supercharger means fluidly connected to the engine combustion chambers for increasing the supply of air to the engine combustion chambers, said supercharger means comprising a centrifugal compressor having an impeller and a scroll surrounding said impeller and defining a supercharger scroll region; and a secondary fuel supply means fluidly connected to said supercharger means for replacing a part of the primary fuel supplied to the engine combustion chambers by said primary fuel injection means with a secondary fuel in accordance with engine load and the amount of primary fuel supplied to the combustion chambers, said secondary fuel supply means comprising a secondary fuel injection means in said scroll for injecting secondary fuel into said supercharger scroll region, and a source of secondary fuel fluidly connected to the said secondary fuel injection means.

Compl. specn. 33 pages.

Drgs. 9 sheets

CLASS : 163427

A PROCESS FOR THE SELECTIVE PRODUCTION OF LINEAR PRIMARY ALCOHOLS HAVING 1 TO 5 CARBON ATOMS.

Applicant : UNION CARBIDE CORPORATION, MANUFACTURERS, A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF NEW YORK, OF OLD RIDGEBOURY ROAD, DANBURY, STATE OF CONNECTICUT 06817, UNITED STATES OF AMERICA.

Inventor : NANCY ELLEN KINKADE.

Application No. 1048/Mas/84 filed 28 December 1984.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras-2.

3 Claims

A process for the selective production of mixtures of linear, primary alcohols of 1 to 5 carbon atoms comprising reacting at 250°C to 500°C, carbon monoxide and hydrogen at a molar ratio of 1:10 to 10:1 in the vapor phase, and in the presence of a catalyst consisting of molybdenum sulfide and alkali metal compounds such as herein defined in an amount of 0.2 to 2 moles per mole of molybdenum sulfide, wherein the hydrogen and carbon monoxide gas reactants are fed to the reaction at a rate of 3,000 to 24,000 liters per liter of catalyst per hour.

Compl. specn. 37 pages.

Drgs. Nil

Int. Cl.4 : C 07 C 29/16

A PROCESS FOR PRODUCING C_n-1 ALCOHOLS

Applicant : UNION CARBIDE CORPORATION, a corporation organized under the laws of the State of New York, of Old Ridgebury Road, Danbury, State of Connecticut 06817, U.S.A.

Inventor : NANCY ELLEN KINKADE

Application No. 1049/MAS/84 filed 28 December 1984

Appropriate Office for opposition proceedings (Rule 4, Patents rules, 1972) Patent Office Branch, Madras-2.

12 Claims

A process for producing C_n-1 alcohols, wherein n is a positive integer of at least 2, comprising reacting in a vapor phase a gas feed of at least one C_n olefin with carbon monoxide and hydrogen in the presence of a solid catalyst consisting of molybdenum sulfide and an alkali compound selected from the group of one or more organic and inorganic compound of alkali metals and alkaline earth metals such as herein defined, excluding potassium hydroxide, and wherein the reaction gas hourly space velocity is from 1000 to 24,000 hour⁻¹ and recovering the alcohol is from the reaction mixture by known means.

Complete Specification 49 pages and drawings 'NIL'.

CLASS : 163429

Int. Cl.⁴ : B 01 J 21/12.

A METHOD OF PREPARING AN ACTIVATED CRYSTALLINE ALUMINUM PHOSPHATE CATALYST, WITH INCREASED CATALYTIC ACTIVITY.

Applicant : MOBIL OIL CORPORATION, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATES OF AMERICA, OF 150 EAST 42ND STREET, NEW YORK, NEW YORK 10017, UNITED STATES OF AMERICA.

Inventors : EMMERSON BOWES, ANIL BHAI CHANDRA KETKAR, ERIC GERARD DEROUANE.

Application No. 292/Mas/85 filed 17 April 1985.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras-2.

3 Claims

A method of preparing an activated crystalline aluminum phosphate catalyst, with increased catalytic activity comprises, combining :

- (i) a solid, microporous, crystalline aluminium phosphate;
- (ii) an amorphous, activating metal oxide of 10 to 90% by weight of the combined aluminium phosphate and activating metal oxide, the said activating metal oxide being selected from SiO_2 and GeO_2 and
- (iii) 25 to 75% by weight of the total mixture, of water wherein said aluminium phosphate and said activating metal oxide are intimately ground in the presence of water and dried.

Compl. specn. 12 pages.

Drg. Nil

R_1 represents a C_{1-6} alkyl radical such as methyl C_{2-6} alkenyl radical such as allyl; or a hydrogen atom,

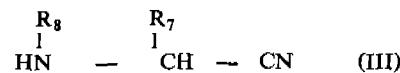
R_2 represents a C_{1-6} -alkyl radical such as methyl or ethyl; a C_{2-6} alkenyl radical such as allyl; a benzyl radical; C_{3-6} -cycloalkyl-C₁₋₂-alkyl radical such as cyclopropyl ethyl; or C_{4-6} -cycloalkenyl-C₁₋₂-alkyl radical such as cyclohexenyl-methyl; or a hydrogen atom.

R_3 , R_4 , R_5 , R_6 , R_7 and R_8 represents a C_{1-6} -alkyl radical such as methyl or a hydrogen atom,

X represents a halogen atom such as chlorine or bromine, and pharmacologically acceptable salts thereof which comprises:

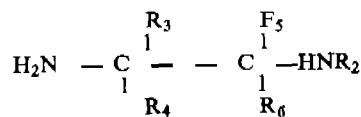
reacting an acid of the formula II of the accompanying drawings

in which R_1 and X bear the same meaning as defined above or one of its reactive derivatives, with a nitrile of the formula III



in which R_7 and R_8 have the same meaning as defined above in the presence of a solvent such as chloroform, at a temperature of between 0 to 500°C to produce a cyanomethylbenzamide of the formula IV of the accompanying drawings.

which is reacted with a substituted diamine of the formula VIII :



in which R_3 , R_4 , R_5 and R_6 have the same meaning as defined above, in the presence of carbon disulphide, at a temperature of between 100 to 140°C to form the compound of formula I of the accompanying drawings and converting the said compound into its pharmacologically acceptable salts in a known manner.

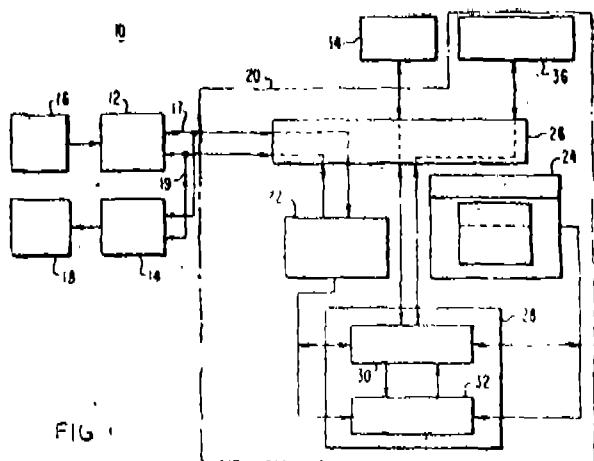
The compounds of this invention exercise gestromotor effect, which may be accompanied by an antiemetic effect.

(Com.—44 pages; Drwgs.—1sheet)

4 Claims

A process for the preparation of N-(2-Imidazolinylmethyl) 4-amino 5 halo benzamide derivatives of the general formula I of the accompanying drawings in which

163371



FIG

163380

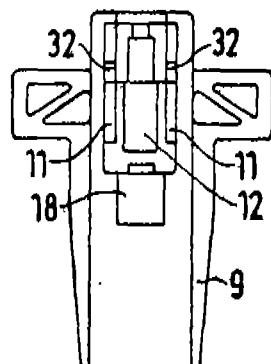
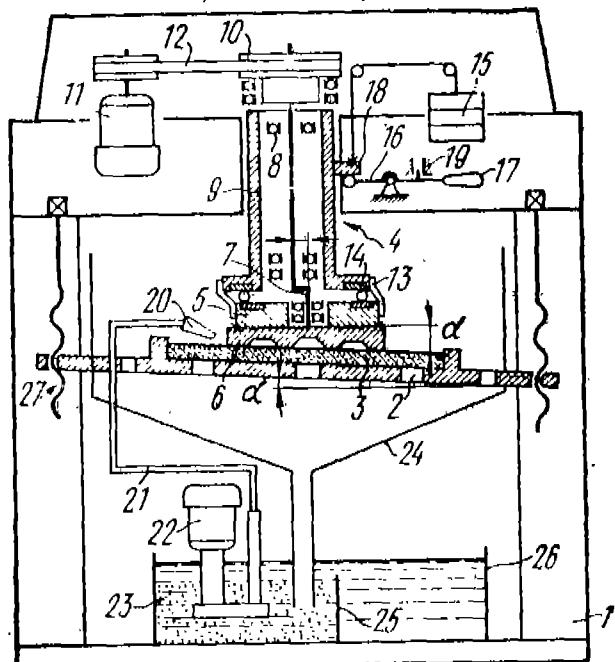


Fig. 2

163374

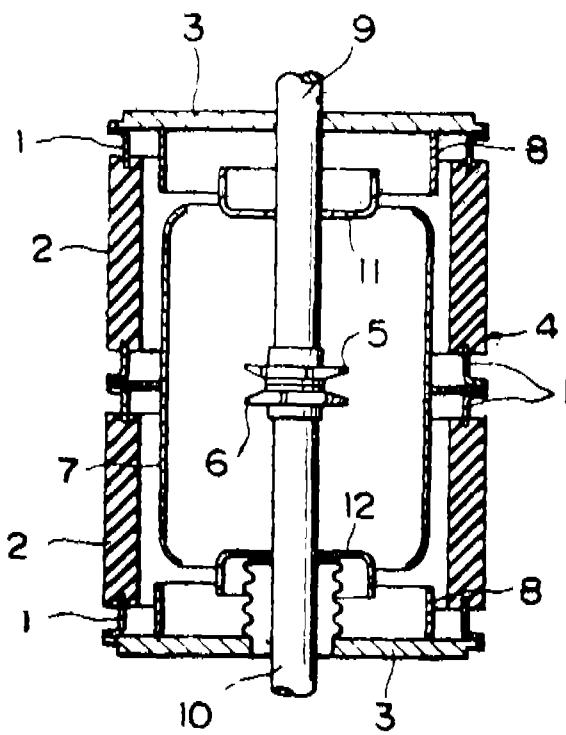
Patents Rules 1972) Patent Office, Calcutta.



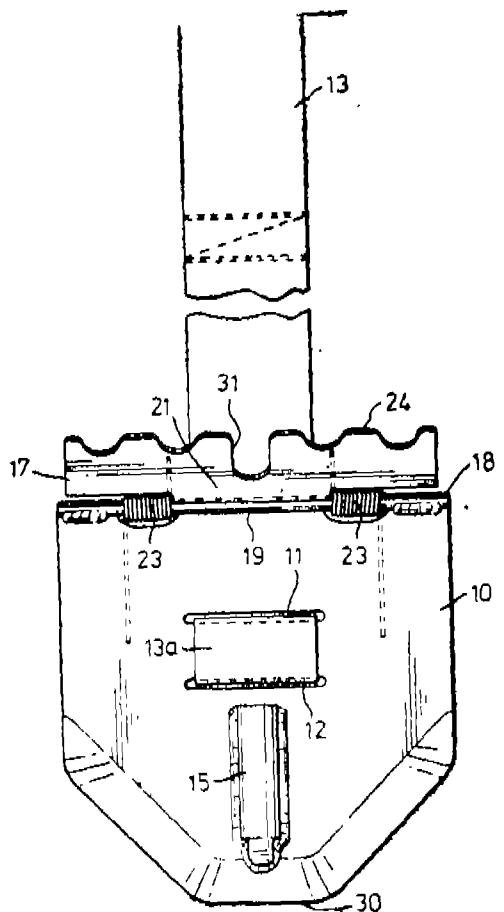
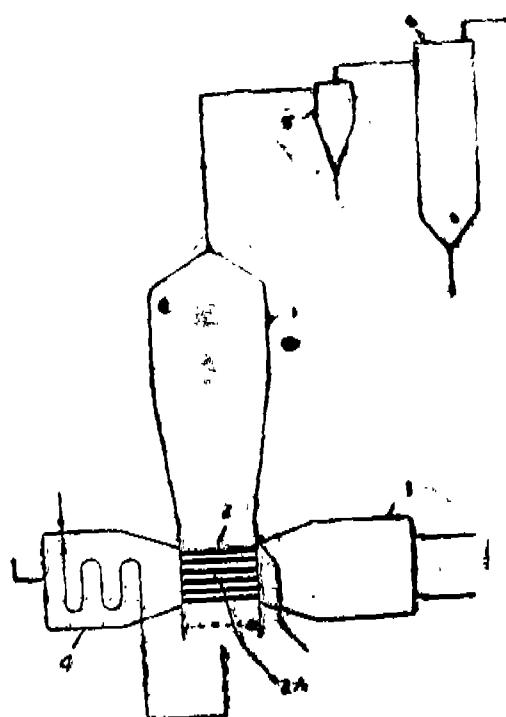
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FIG. 1

163375



163402



163403

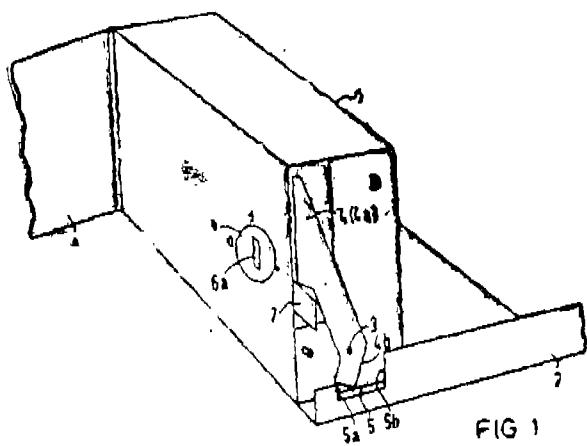


FIG. 1

163407

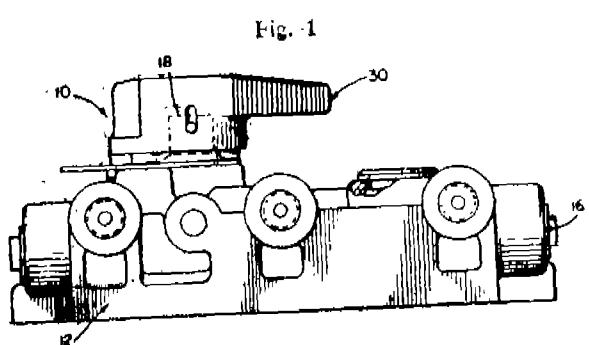
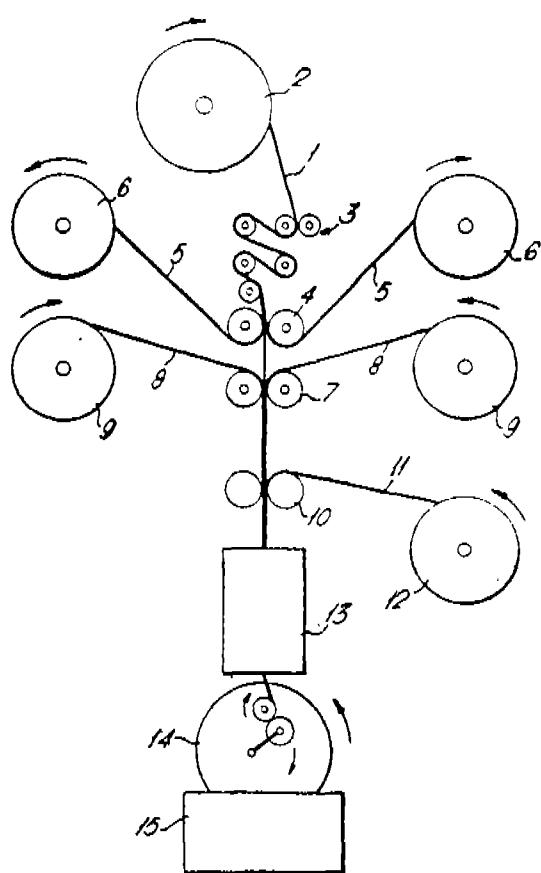
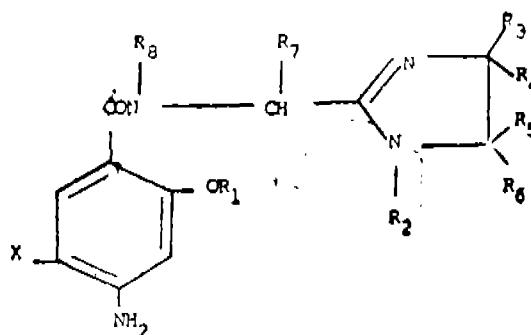


Fig. 1

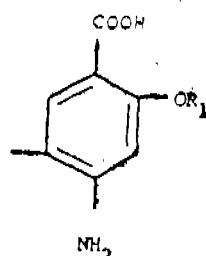
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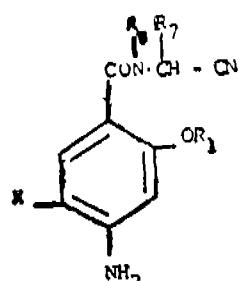
487/MAS/86



FORMULA I



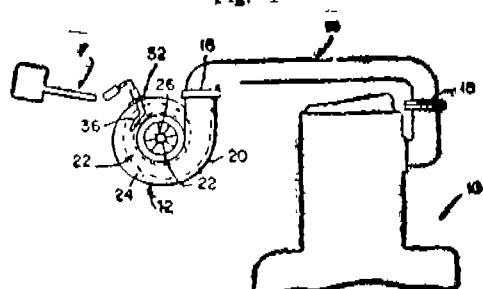
FORMULA II



FORMULA IV

163426

Fig. 1



(R. A. ACHARYA)
CONTROLLER GENERAL OF PATENTS,
DESIGNS AND TRADE MARKS.